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Missouri Botanical Garden

See the World

JANUARY / FEBRUARY 2002

Gauguin's Tahiti: Annual Orchid Show

See page 2

Volume LXXXX
Number One

Gauguin's Tahiti

79th Annual Orchid Show

February 2 – March 17, 2002

Tropical Tahiti beckons with rich flora, art and folkways. Walk the island pathways that inspired the great works of Paul Gauguin (1848–1903) and revel in a lush paradise created by hundreds of blooming orchids. Life-size figures from nine of Gauguin's most exciting works have been crafted to celebrate the 79th annual display of the Garden's orchid collection.

Scenes from paintings like *Arearea (Joyousness)* and *Te pape nave nave (Delightful Water)* are rivaled only by the living beauty of Cattleya, Cymbidium, Laelia, and other orchid species. A portion of Gauguin's thatched house has been set amidst palms and ferns. The enticing tableau includes reproductions of sculpted totems like *Birdman* and *Fisherman's God*. This unique setting was re-created from the late 1800s to showcase exceptional orchids of diverse size, color, scent and shape.

Renowned for their beautiful flowers, the orchid family, Orchidaceae, is the largest plant family in the world. There are more than 30,000 species and even more hybrids. While the largest number of species are native to tropical regions, particularly Asia, orchids occur on every continent except Antarctica. About 35 orchid species are native to Missouri.

The Garden's orchid collection is the largest special plant collection at the Missouri Botanical Garden and currently numbers more than 10,000 plants. The collection dates from the 1870s when Garden founder Henry Shaw was given a small group of orchids collected in Brazil. During the 1950s, when the collection was housed at Shaw Nature Reserve, it contained more than 60,000 plants. Later that decade, it was trimmed to 25,000 specimens when it moved back to the city. Since then, the Garden has continued to refine its collection with newer and more modern hybrids, but still retains many historic hybrids. The oldest orchid species still in the collection dates from the 1890s.

The Members' Orchid Show Preview Party is Friday, February 1. See page 11 for details.

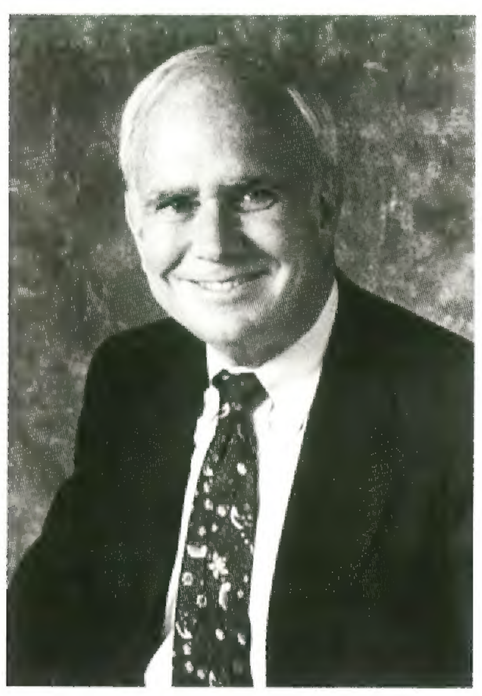
Brian LeDoux Celebrates his 27th Orchid Show

The man behind the scenes at the Garden flower shows is Brian LeDoux of the Horticulture Division. LeDoux began working at the Garden in 1975 and has been responsible for planning, designing, creating and maintaining the annual floral displays ever since. This marks his 27th annual orchid show.

Paul Gauguin (1848-1903),
***Where do we come from? What are we doing? Where are we going?*, 1897**

Comment

Missouri Botanical Garden Mission:
To discover and share knowledge about plants and their environment, in order to preserve and enrich life.



This is a time to accept the challenge of renewed opportunities. The Garden and its family of Members, volunteers and staff are no exception. Of course, we have a grand history of reaching beyond ourselves, creating a context in which to achieve the contributions to society here in St. Louis and throughout the world for which the Missouri Botanical Garden is known.

Our capacity to invest in the future of our region and the future of our planet is made possible by the Members, and we are grateful for all that you do for us, from the wonderful events and special activities each year to the strong support you give our plans. Membership fees are critical to our success, since they are unrestricted and enable us to take the risks necessary to maintain the standards of excellence you expect of the Garden.

We recognize your commitment through your Membership Benefits. While they are only a token of our gratitude, we do everything possible to enhance them, including, at the upper levels, providing access to the Sophia M. Sachs Butterfly House, our wonderful fifth campus in the region and a spectacular development in Faust Park by Evelyn and Eric Newman and their colleagues.

I can't think of another event that displays the richness and beauty of the Garden and its resources more than the Orchid Show, which opens at the beginning of February, shepherded to fruition by an outstanding Horticulture staff. They begin their work with the outstanding orchid collection that is nurtured in the greenhouses by Babs Wagner and her colleagues. Don't pass it up. There isn't one like it anywhere.

We are entering a new level of commitment and engagement in our programs for children. You will see it in the way we plan our activities, as last year's Best of Missouri Market and Holiday Flower Show demonstrated. The larger effort will occur under Dr. Luther Williams' leadership in our Education and Interpretation programs, as we add depth and expand our teacher training and school partnerships, expand the instructional resources we offer, and our programs at Litzsinger Road Ecology Center, Shaw Nature Reserve, and now at the Gateway Center for Resource Efficiency in the EarthWays Home at Grand Center.

These are truly exciting times for all of us. We hope to add new dimensions to our lives together at the Garden. I am looking forward to meeting these challenges and seizing these new opportunities with you.

Peter H. Raven, Director

Mailing Address:
Missouri Botanical Garden
Post Office Box 299
St. Louis, Missouri 63166-0299

www.mobot.org

Important Phone Numbers:
(314) 577-5100
Development: (314) 577-5120
Patricia Arnold, director
Communications: (314) 577-0254
Brenda Jones, director
Membership: (314) 577-9500
Public Relations: (314) 577-5141

Garden Hours:
9 a.m. to 5 p.m. every day except Christmas; 9 a.m. to 8 p.m. on Mondays Memorial Day through Labor Day. Grounds open 7 a.m. Wed. & Sat.

Shaw Nature Reserve:
(636) 451-3512 (toll free from St. Louis)

Butterfly House
(636) 530-0516 (toll free from St. Louis)

24-Hour Information:
GardenLine – (314) 577-9400
Or call 1-800-642-8842.

24-Hour Gardening Tips:
HortLine – (314) 776-5522
Or see www.mobot.org.

Horticulture Answer Service:
Talk to a Master Gardener from 9 a.m. to noon, Mon.–Fri.: (314) 577-5143
Composting Hotline: (314) 577-9555

On the Cover
"Gauguin's Tahiti," the 2002 Orchid Show, features orchids from the Garden's collection. For more about the show, see page 2. – Photo by Tim Parker.

Editor
Patricia Arnold

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The BULLETIN is sent to every member of the Garden as a benefit of membership. For a contribution of as little as $60 per year, members also are entitled to: free admission to the Garden, Shaw Nature Reserve, and Tower Grove House; invitations to special events and receptions; announcements of all lectures and classes; discounts in the Garden Gate Shop and course fees; and the opportunity for travel, domestic and abroad, with other members. For information, call (314) 577-5118.

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Trustees

In Memoriam

TIM PARKER

Mr. Sydney M. Shoenberg, Jr. died on November 11, 2001. Mr. Shoenberg had been a member of the Garden's Board of Trustees since 1972. He gave unstintingly of his time and energy to further the development of the Garden and its programs, providing guidance and counsel for nearly 30 years.

As an officer of the Shoenberg Foundation, Mr. Shoenberg was a leader in providing generous support for the Garden and many other St. Louis institutions. His commitment to these efforts is more than evident as you walk around the Garden grounds. The Shoenberg Auditorium, the Shoenberg Fountain, the Shoenberg Temperate House, the Shoenberg Administration Building and the Shoenberg Conservation Center in the Library are all named in honor of his generosity.

In 1998, Mr. Shoenberg was presented the Henry Shaw Medal, the Garden's highest honor, for his extraordinary contributions to the quality of life in St. Louis. Millions of people have benefited from his philanthropy and his civic spirit stands as an example to future generations. — *Tributes for Mr. Shoenberg will be listed int the next Bulletin*

New Officers for 2002

Jack E. Thomas, Jr. continues as President of Board. Scott C. Schnuck is the newly elected First Vice-President

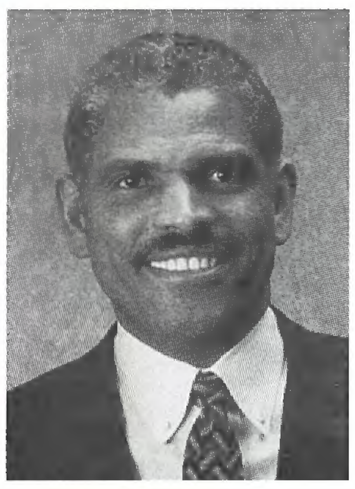
On November 1, 2001, Scott C. Schnuck was elected first vice-president of the Garden's Board of Trustees.

Scott Schnuck, President and Chief Operating Officer of Schnucks Supermarkets, joined the Board in February 2000 and currently serves as chairman of the Finance Committee and serves on the Capital Campaign Steering Committee.

Arnold Donald was elected a Trustee for a four-year term.

Trustee Profiles

Arnold W. Donald


Arnold Donald

Arnold Donald is the Chairman and Chief Executive Officer of Merisant Company, producer of leading global tabletop sweetener brands Equal and Canderel. Merisant, formed in March 2000, is committed to the growing global need for health, nutritional and lifestyle products based on science and technology.

Prior to assuming leadership of Merisant, Mr. Donald was a senior executive at Monsanto Company. He joined the company in 1977 and held several major positions, including that of Senior Vice-President, with worldwide responsibility for the company's growth, globalization and technology initiatives.

He has received numerous awards and is currently involved with many local, national and international organizations. Mr. Donald was instrumental in securing a sponsorship from the Equal Foundation for the Chapungu sculpture exhibit earlier this year. We look forward to working with him as a Trustee.

Dr. Raven said, "As his life demonstrates, Arnold Donald understands and is committed to the Garden's mission. He is a wonderful addition to our Board, and I look forward to working with him."

Lucy Lopata

Lucy Lopata

Lucy Lopata, one of the original founders of the Butterfly House, served as vice president of the organization until it became a division of the Garden earlier this year. Mrs. Lopata has been named a Trustee Emeritus of the Garden.

Lucy and her late husband, Stanley, have been Garden members for more than 40 years. The Prairie Garden in the Kemper Demonstration Gardens was named in their honor as well as the Azalea and Rhododendron Garden near the Tram Shelter. The learning laboratory at the Butterfly House is also named for their generosity. Lucy continues her commitment to the Garden and we are delighted to have her serve in this capacity.

Peter Raven said, "The Lopatas have been a guiding force in creating many new and exciting opportunities for the community. The Butterfly House is a wonderful example of their efforts."

In addition to the Garden and the Butterfly House, Mrs. Lopata is involved with Washington University, the Jewish Federation, the Boy Scouts of America, the United Way, the Missouri Historical Society and the St. Louis Symphony.

Joseph F. Shaughnessy

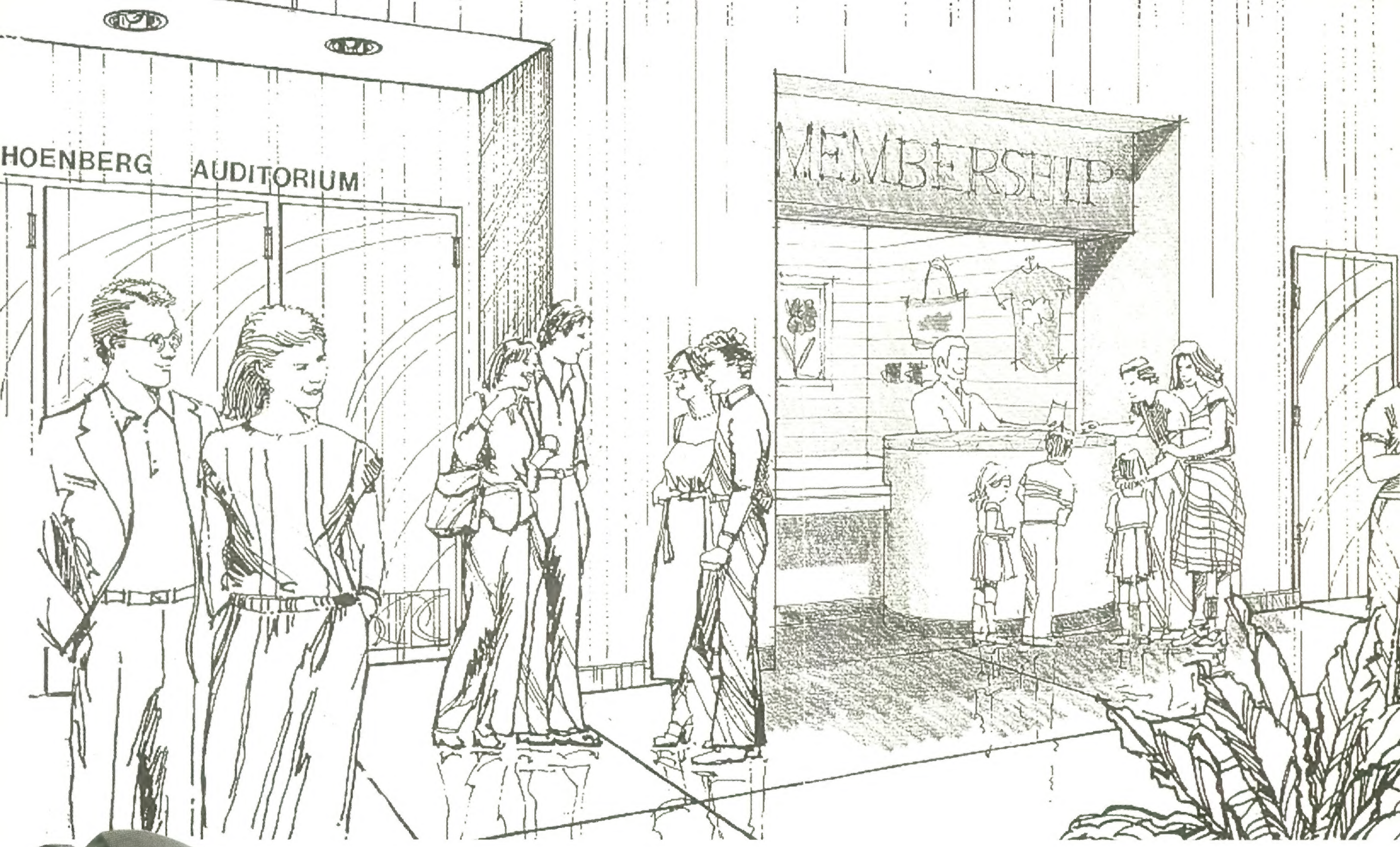
Joseph F. Shaughnessy

Joseph F. Shaughnessy, Butterfly House board member, was also named Trustee Emeritus. Mr. Shaughnessy is Chairman of BSI Constructors, which he founded in 1972 as Bannes-Shaughnessy. In 1998 he was named Entrepreneur of the Year. Today BSI is ranked among the top construction firms in the nation.

Among BSI Constructors' notable St. Louis projects are construction of the Butterfly House and renovation of the Climatron® Conservatory.

BSI Constructors has served the Garden's construction needs for over 10 years. In addition to the Climatron renovation, BSI was instrumental in the construction of the William T. Kemper Center for Home Gardening and the Monsanto Center.

Dr. Raven said the honor is "well-deserved. Joe has provided valuable guidance to the Butterfly House and the Garden for many years."



Artist rendering of the new Membership Booth in the Ridgway Center, near the Garden's main entrance.

Ridgway Under Renovation

Ridgway Center, the main entrance for the Garden, will be the site for a series of improvements starting in early January 2002. The elevator will be upgraded to meet new state codes and to accommodate higher usage. During the elevator renovation the handicap accessible path will be reconfigured, directing visitors through the Garden Gate Shop and out the northeast corner door. Signs will direct you along the sidewalk to ramps leading to the upper deck. Call visitor services, (314) 577-5101, for more information.

An improved membership desk will be built in the east wall of Ridgway between the auditorium entrance and the Garden Gate Shop. Construction will begin in February and will provide much needed space for member services.

In addition, modernization in the Garden Café's kitchen will cause the restaurant to be closed for the first three weeks of January.

Change A Light, Change The World

To focus attention on the potential energy savings in a typical home, Pat and Peter Raven replaced 130 light bulbs in their home with compact fluorescent bulbs.

"Of all the lifestyle changes we can make to reduce environmental impact," Raven said, "this is an easy and practical way to promote conservation and sustainable living in our world."

The Ravens converted their bulbs to publicize the "Change A Light" challenge issued by the Missouri Department of Natural Resources, Energy Star®, and the Midwest Energy Efficiency Alliance, as part of a nationwide conservation effort. The change made in the Ravens' home is expected to save more than $5,000 over the life of the bulbs.

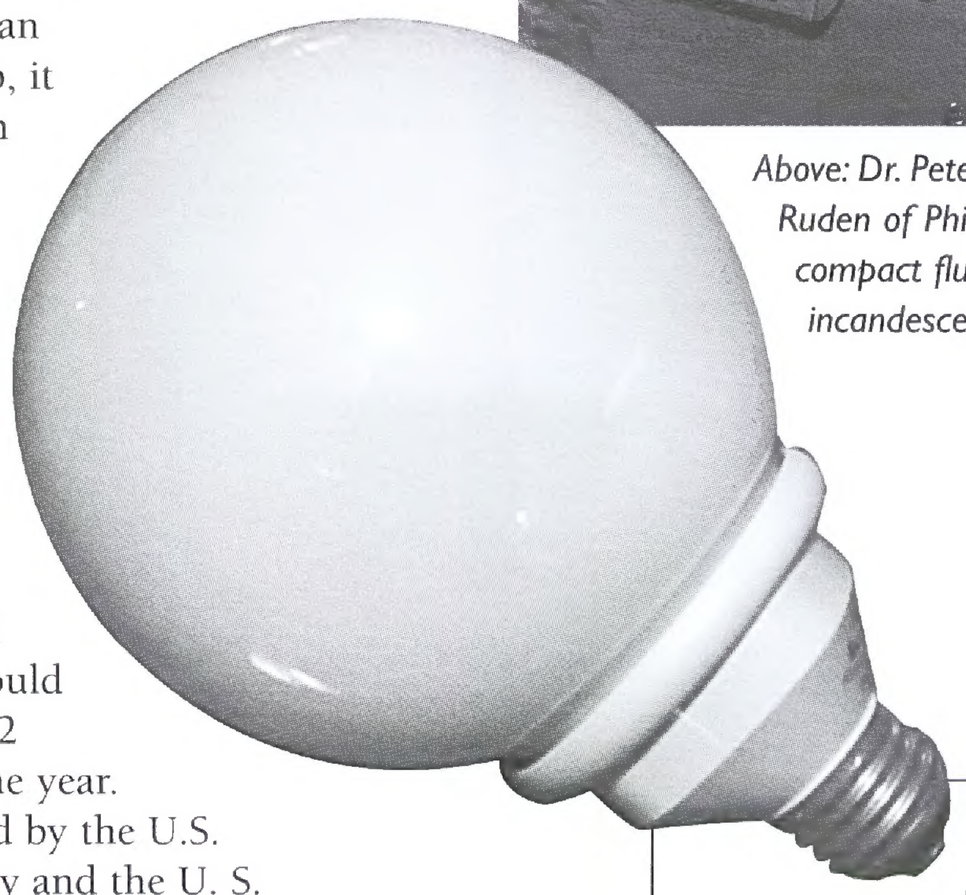
The Missouri Department of Natural Resources estimates that if every household in America were to change just one light to an Energy Star® qualified light bulb, it would save more than 8.4 billion kilowatt-hours of electricity. That energy savings could light 720,000 homes in Missouri for an entire year.

According to the Environmental Protection Agency, if every household makes its next light an Energy Star® light, the nation will save $800 million in energy bills, and the reduction in air pollution would be the equivalent of removing 1.2 million cars from the road for one year.

Energy Star®, jointly managed by the U.S. Environmental Protection Agency and the U. S. Department of Energy, allows consumers to easily identify energy-efficient appliances, lighting, and equipment. For more information on home energy savings visit www.changealight.com.

PHOTOS BY TIM PARKER

Above: Dr. Peter Raven, Garden Director, and Drew Von Ruden of Phillips Lighting Co. display one of the 130 compact fluorescent bulbs that replaced the standard incandescent bulbs throughout the Ravens' home.



The Gateway Center for Resource Efficiency, a division of the Missouri Botanical Garden promoting energy and resource efficiency through sustainable practices and projects, was instrumental in implementing the "Change A Light" program at the Garden. Gateway Center is located in the EarthWays Home, a century-old house in Grand Center that was renovated to provide practical demonstrations of energy efficient systems and recycled products. For tours of the EarthWays home, please call (314) 577-0220.

Home Gardening

With the arrival of spring and its great floral bounty, we're all too happy to look ahead and put winter behind us. But the pathway from winter to spring is edged with a group of stalwart plants whose appearance in late winter heralds the transition of the seasons. Shrubby witchhazels, along with a succession of little bulbs bearing names such as snowdrops, winter aconite, snow crocus, snow iris, snowflakes, Siberian squills, and glory-of-the-snow – their names are enough to conjure up an image of ice and cold, and they certainly also share the descriptive terms "tough" and "hardy." All are true winter bloomers, genetically programmed to respond to seasonal cues of temperature and day length. Whether or not the weather is to our liking, they're going to do their thing.

Of the witchhazels, the first to bloom is our native Ozark, or Vernal witchhazel *(Hamamelis vernalis)*. It's not unusual for its small, sweetly scented orange-ish flowers to first appear on mild, sunny days shortly after the New Year, though early February is the norm. Within a few weeks, the Chinese witchhazels *(Hamamelis mollis)* next appear. The pale yellow-flowered cultivar 'Pallida' is particularly choice. The Intermedia hybrids *(Hamamelis x intermedia)* bloom next. Many good cultivars exist, including 'Jelena', 'Diane', 'Orange Beauty', and 'Primavera'. Perhaps the finest of all the witchhazels is 'Arnold Promise', a tall upright form with showy, fragrant yellow flowers. 'Arnold Promise' dominates the season in which it blooms and is arguably one of the finest shrubs for Midwest gardens. Sun and shade tolerances of all witchhazels vary, but most generally thrive in the understory beneath large deciduous trees and in any well-drained soil.

Shortly after the Ozark witchhazel begins to bloom, the white-flowered giant snowdrop *(Galanthus elwesii)* first appears, followed by the common snowdrop *(G. nivalis)*. Both are excellent choices for area gardens. Winter aconite *(Eranthis hyemalis)* is next up, with golden yellow blossoms resembling a miniature single rose. Any of several snow crocus appear about the same time, including *Crocus chrysanthus*, as well as *Crocus tommasinianus*, a variable form said to be somewhat less attractive to pilfering squirrels. The Dutch crocus, a large group of named cultivars of *Crocus vernus*, also make excellent choices for local gardens.

The snow iris bloom alongside the early crocus, and include three species, *Iris reticulata* also known as the Reticulated iris, *Iris histriodes*, and *Iris danfordae*. Of the winter bloomers, they are the most vulnerable to injury from freakish conditions, but are well worth the effort to take a chance on, as most winters will see them through unscathed. One of the most overlooked winter flowers is the spring snowflake *(Leucojum vernum)*, an

Common snowdrop

A Winter Retrospective

BY CHIP TYNAN

Winter aconite

early March bloomer bearing white bell-shaped flowers resembling a miniature parachute.

Among the squills, Siberian squill *(Scilla siberica)* with its pendant deep blue flowers is most commonly grown. *Scilla bifolia* is similar, but with upward-facing flowers. The closely related glory-of-the-snow *(Chionodoxa luciliae)* with its denim-blue flowers, are among the last, but certainly not the least, of the winter bloomers to appear. 'Pink Giant' is a selected cultivar, and *Chionodoxa sardensis* is another popular species. The flowering season of these squills literally straddles the spring equinox — by the time they finish blooming spring will be well under way. Virtually all of these winter flowering bulbs thrive in the same growing conditions described above for witchhazels.

No discussion of winter flowers would be complete without mentioning three hardy Hellebores: the Christmas rose *(Helleborus niger)*, Lenten rose *(H. orientalis)*, and the unfortunately named stinking hellebore *(H. foetidus)*. Among the trendiest flowers in the current gardening world, these hellebores are easy to grow, but difficult to propagate. As a result, they are often in short supply. Don't pass on any opportunity to obtain these fine plants for your garden.

Chip Tynan manages the Garden's Horticultural Answer Service and writes a popular weekly column for the St. Louis Post-Dispatch. *He has been on the staff at the Garden since 1986.*

Holiday Tree Recycling

December 26, 2001 – January 21, 2002

Drop off holiday trees at the marked lot in the 4500 block of Shaw between Vandeventer and Kingshighway, across from the Monsanto Center. All decorations should be removed, no bagged trees please. For more information call the hotline at (314) 577-9555.

A service of the Garden and the *St. Louis Post-Dispatch*.

What's Coming **up**

At the Kemper Center for Home Gardening

4th Annual Dirt Festival

Saturday, March 9, 2002 – 8:30 to Noon

Sponsored by Suburban Journals

Registration Deadline: March 1

Enjoy free gardening lectures by area specialists. Advance registration required.

SOIL TESTS (Optional)

Take advantage of our optional Basic Soil Test at a special reduced rate. Mail samples by the February 25 deadline and pick up the results on the day of the Dirt Festival. We will send a sample box to you. Make checks payable to Missouri Botanical Garden. Select the type of soil test desired and write in the number of samples being sent:

___Basic Soil Test $20
Analyzes pH, organic matter, phosphorus, potassium, calcium and magnesium. Good for determining fertilizer requirements.

___Complete Soil Test $35
Basic test plus levels of sulfur, iron, boron, copper, manganese and zinc. For problem soils or when converting a new area into garden or lawn.

Crop or Plant To Be Grown (please circle one):

Annuals	*Perennials*	*Bulbs*	*Roses*
Herbs	*Indoor Plants*	*Shade Trees*	*Shrubs (specify)*
Small Fruit	*Vines*	*Ground Covers*	*Fescue*
Bluegrass	*Zoysia*	*Vegetables (specify)*	
Rhododendrons/Azaleas			

REGISTRATION (Name of person on soil test report):

Name_____

Address_____

City_____State_____Zip_____

Phone(___)_____Fax(___)_____

Mail this form with your check payable to:
Missouri Botanical Garden
DIRT FESTIVAL
William T. Kemper Center for Home Gardening
P.O. Box 299
St. Louis, MO 63166-0299

Call (314) 577-9441 Monday through Friday, 9 a.m. to 5 p.m., if you have questions.

Home Gardening

Directory of Regional Plant Societies

This list is published twice a year, in the January and July issues of the *Bulletin*. To change your listing, call (314) 577-5141. Some calls to 636 area code may require dialing "1" first, depending on the caller's location.

American Orchid Society
(Mid-America Regional Judging Committee)
David Brown. . . . . (314) 727-2385

Belleville Area Rose Society
Dennis Nelson. . . . . (618) 233-4609
http://members.accessus.net/~rosenut

Bonsai Society of Greater St. Louis
Bob Harris . . . . . (314) 352-0817

Boxwood Society of the Midwest
Mary Clair Wenger . . . . . (314) 846-2834

Dahlia Society of Greater St. Louis
Ellis Evans . . . . . (314) 843-3767

Federated Garden Clubs of Missouri
Elizabeth Roche . . . . . (314) 544-4337

Gardeners of America (Ozark Region)
Russell McClellan . . . . . (314) 837-2470

Gateway West Gesneriad Society
Gary Dunlap . . . . . 1-(636) 789-3604
patspets@JCN1.com

Greater St. Louis Daffodil Society
Jason Delaney. . . . . (314) 577-0234
jason.delaney@mobot.org

Greater St. Louis Daylily Society
Elaine Hogg . . . . . (314) 432-4206

Greater St. Louis Iris Society
Jim Loveland. . . . . (636) 349-4977

Henry Shaw Cactus Society
Pat Thomann . . . . . (314) 892-1123

Metro East Herb Club
Daphne Sumner . . . . . (618) 538-7739

Metropolitan St. Louis African Violet Council
Nancy Amelung. . . . . (314) 961-7142

Mid-America Regional Lily Society
Fred Winterowd . . . . . (314) 423-5313

Missouri Botanical Garden Daylily Society
Mirko Bolanovich . . . . . (314) 965-7471

Missouri Mycological Society
Maxine Stone . . . . . (314) 963-0280
verymaxine@aol.com

Missouri Native Plant Society
George Yatskievych . . . . . (314) 577-9522
george.yatskievych@mobot.org

Missouri Orchid Society
Ron Taube. . . . . (314) 961-0577

North American Rock Garden Society
Sandy Evertowski . . . . . (314) 837-4841

Orchid Society of Greater St. Louis
Millie Schettle . . . . . 1-(636) 584-0494
schettle@usmo.com

Rose Society of Greater St. Louis
Bob Jeffress . . . . . (636) 946-7109

St. Louis Carnivorous Plant Society
Susan Farrington . . . . . (314) 577-9402
susanfmo@aol.com

St. Louis Evening Herbalists
Linda Burke . . . . . (314) 961-4314
cleftstone@aol.com

St. Louis Herb Society
Barbara Rezny . . . . . (314) 721-8886

St. Louis Horticultural Society
Mindy Keyser. . . . . (314) 421-6610 x236
mkeyser@arn.com

St. Louis Hosta Society
Sandra Copeland . . . . . 1-(636) 447-5980

St. Louis Water Garden Society
Laura Lynne Dyer . . . . . (636) 391-2012
lauralynne@lauralynnephoto.com

Webster Groves Herb Society
Nancy Waddell . . . . . (636) 464-6085
petaledposes@aol.com

West County Daylily Club
Ms. Chick Buehrig. . . . . (314) 389-8261
buehrig31@aol.com

Wild Ones Natural Landscapers, St. Louis Chapter
Scott Woodbury. . . . . (636) 451-3512
scott.woodbury@mobot.org

Calendar of Events

jan. & feb.

IM PARKER

Annual Orchid Show
February 2 – March 17, 2002

Gauguin's Tahiti

Members' Preview Party – Friday, February 1
5 to 8 p.m. • Entertainment • Cash Bar

Garden Gate Shop will be open
Dinner Buffet available for purchase in the Garden Café, $16.95 per person
For dinner buffet reservations call 314-577-9530.

Walk the island pathways that inspired the great works of 19th century painter Paul Gauguin and revel in a lush paradise created by hundreds of blooming orchids. Life-size figures from nine of Gauguin's most exciting works have been crafted to celebrate the 79th annual display of the Garden's orchid collection.

Jan. & Feb. Events

January 9 – February 22

Fruits of Decay: Mushrooms of the Midwest

9 a.m. to 5 p.m., Ridgway Center. Photographic exhibition highlighting common mushrooms found in the upper Midwest. Free with Garden admission or membership.

January 19

Garden StoryTime

11 a.m., Garden Gate Shop. "Herbology in the Muggle World: The Medicinal Uses of Plants." Botanist Sandy Knapp of the Natural History Museum, London, reads from *Harry Potter* and shares some amazing facts about useful plants. For children ages 4 to 10. Children under age 4 must be accompanied by an adult. Free with Garden admission or membership.

February 2 – March 17

Gauguin's Tahiti: Annual Orchid Show

9 a.m. to 5 p.m., Ridgway Center. Inspired by the great works of 19th century painter Paul Gauguin, revel in a lush paradise created by hundreds of blooming orchids. Free with Garden admission or membership.

February 2-3

Missouri Orchid Society Show and Sale

9 a.m. to 5 p.m., Ridgway Center. Free with regular Garden admission or membership.

February 16

Garden StoryTime

11 a.m., Garden Gate Shop. KTRS radio personality Francene Cucinello shares favorite tales by Janell Cannon. Delivered as only Francene could, these cherished stories include *Stellaluna, Verdi, Crickwing* and *Trupp!* For children ages 4 to 10. Children under age 4 must be accompanied by an adult. Free with Garden admission or membership.

Celebrate the Gospel

2 Sundays — February 10 & 17

3 p.m., Shoenberg Auditorium. The Garden's 12th annual Gospel music celebration features outstanding performances by musicians and choirs from local churches and organizations. Seating is limited, on a first-come, first-served basis. Free with Garden admission or membership.

TIM PARKER

Starting February 2

Survival in the Amazon

An exciting, new family adventure in the Climatron®

Also Coming Soon...

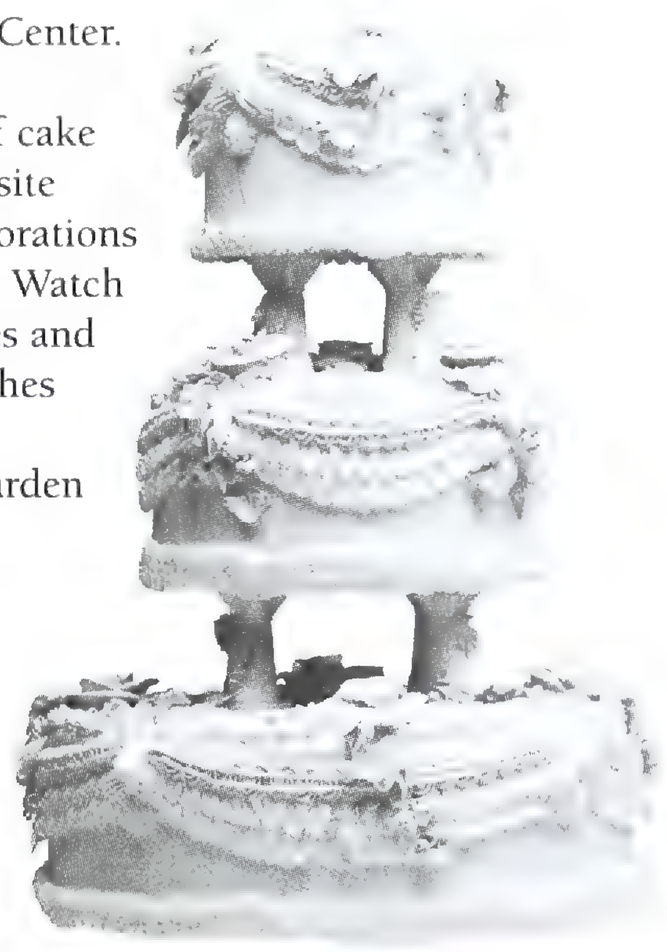
New Garden Birthday Club

Jan. & Feb. Events

February 16 & 17

Sugared & Spiced & Everything Iced

9 a.m. to 5 p.m., Ridgway Center. A fabulous display and demonstration of the art of cake decorating. Features exquisite hand crafted botanical decorations and wedding cake designs. Watch local experts decorate cakes and learn to add finishing touches to your own sweet masterpieces. Free with Garden admission or membership.



Winter Schedules

Trams will run at 10 and 10:30 a.m., 2 and 2:30 p.m., weather permitting. The Bascom House at Shaw Nature Reserve is open Tuesday through Sunday, 11 a.m. to 3 p.m. Tower Grove House is closed in January.

Free Walking Tours

1 p.m. daily, led by Garden Guides. Meet at Ticket Counter. Free with Garden admission or membership.

Ecological Adventures

Saturdays: 11 a.m. to 3 p.m., Brookings Interpretive Center. Hands-on demonstrations are a fun way to learn about the natural world. Free with Garden admission or membership.

Garden Walkers' Breakfasts

In cooperation with the American Heart Association, the grounds open early every Wednesday and Saturday morning at 7 a.m to encourage fitness walking. A light breakfast is available for purchase in the Garden Café starting at 7 a.m.

M E M B E R S • E V E N T S

Members' Days 2002

January 18, 2002

Rare and Endangered Plants in the Climatron®

11 a.m. Shoenberg Auditorium. Learn more about the rare and endangered plant collections in the Climatron®. John MacDougal, Ph. D., Manager of the Conservatories, will focus on the towering and rare Talipot Palm Tree that has been a centerpiece of our tropical collection.

This wonderful specimen needs to be removed from the Climatron® due to its size. Celebrate its life and learn more about other rare and older plants in the tropical dome. After the presentation, join us for a visit to the Climatron® and the Brookings Interpretive Center. In the Garden Gate Shop, members receive an extra 5% discount on our Italian hand blown Climatron® glassware.

February 15, 2002

Orchid Fever–A Horticultural Tale of Love, Lust, and Lunacy

11 a.m. in the Shoenberg Auditorium. Noted travel writer Eric Hansen will be sharing his insights into the obsessive, outrageous and mesmerizing world of orchids; and how greed, passion, love and lunacy have come to rule a nine-billion-dollar-a-year industry. Hansen has traveled extensively throughout the Middle East and Asia. He has lectured at the Smithsonian and his articles and reviews have appeared in the New York Times, Condé Nast Traveler, Outside Magazine, Travel and Leisure, *and* Natural History Magazine. *After the lecture Eric Hansen will be signing copies of his book* Orchid Fever. *In the Garden Gate Shop, members will receive an extra 5% discount on all orchid supplies, accessories and orchid books.*

Members' Days are free and presented exclusively for Garden members and their guests. Receive free tram rides, special discounts in the Garden Gate Shop, and 10% off in the Garden Café.

Jan. & Feb. Events

Members' Valentine Dinner Dance

Sunday, February 10, 2002

Dinner – 6:30 to 8 p.m. • Music and Dancing – 7:30 to 10:30 p.m. • Cash Bar

Enjoy a romantic dinner in Monsanto Hall, then stroll with your special someone through the Orchid Show, visit the Linnean House to enjoy the camellias in bloom, and dance the night away.

1st Course

Spinach Salad with Spiced Pecan, Walnut, and Cranberry Vinaigrette

Entrees – Choice of One:

Grilled Sea Bass with a Lobster Saffron Sauce

Or

Grilled 10 oz Strip Steak Topped with Caramelized Onions and a Thyme Scented Demi Glace

Accompaniments

Grilled Tomato Risotto Cake with Medley of Fresh Winter Vegetables

Dessert

Chocolate Cup with Raspberry Mousse

Each pair of guests will receive a complimentary glass of Champagne.

Dinner is $50 per person, gratuity is included. Reservations must be received by February 4, 2002. Please call 314-577-9500. Seating is limited.

MEMBERS' DAYS 2002 – Mark Your Calendar!

Save these dates and enjoy all the special Members' Days this year.

JANUARY 18 Friday	*Rare and Endangered Plants in the Climatron*	**JULY 24 Wednesday**	*Henry Shaw Birthday Celebration*
FEBRUARY 15 Friday	*Catch Orchid Fever with author Eric Hansen*	**AUGUST 9 Friday**	*Grigg Nanjing Friendship Garden*
MARCH 14 Thursday	*Butterfly Gardening in St. Louis*	**SEPTEMBER 11 Wednesday**	*Photo Shoot with Jack Jennings*
APRIL 19 Friday	*Mints: A Family of Herbs and Ornamentals*	**OCTOBER 16 Wednesday**	*Fall Color Tour of the Shaw Nature Reserve*
MAY 23 Thursday	*Rose Evening*	**NOVEMBER 13 Wednesday**	*Holiday Decorating at the Garden*
JUNE 7 Friday	*Members' Musical Evening*	**DECEMBER 14 Saturday**	*Holiday Concert*

Members

"A Garden of Gems"

The October benefit at Antoinette's Jewelry in Ladue was a great success, thanks to the support and dedication of the Members' Board and the "Garden of Gems" Committee. Proceeds from the event benefit the "Gems," (Great Explorations in Math and Science), program at the Garden.

The evening included sparkling floral designs, beautiful jewelry creations, a trunk showing of Monte Carlo Design, and attendance drawings for jewelry. Our deepest appreciation to Antoinette's Jewelry for making the evening possible.

TIM PARKER

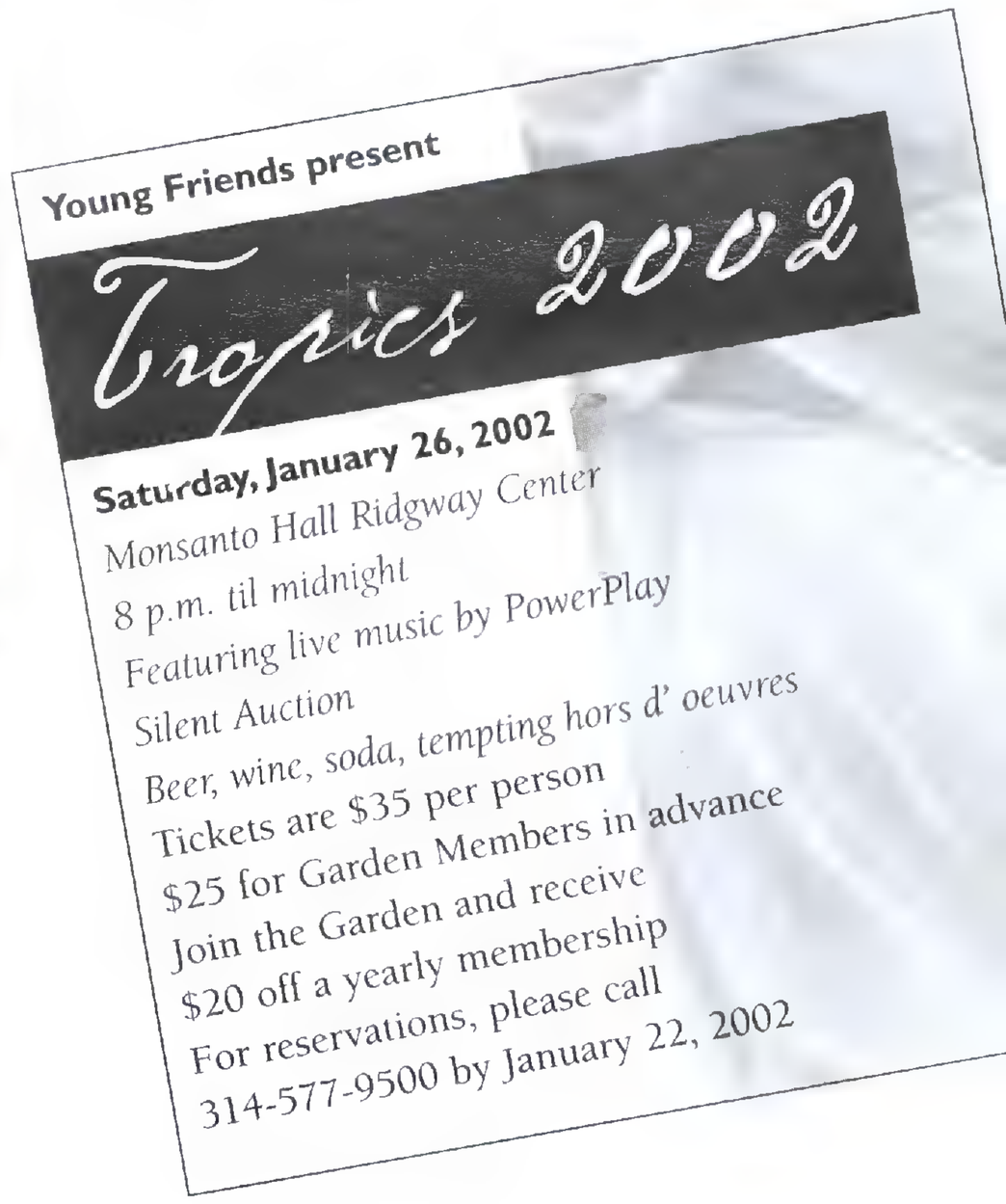
Gloria Strauss, Lawton Levy, Sandy Levy and Cheri Fromm

Nora Stern and Ellen Dubinsky are Honored for Ten Years of Best of Missouri Market

The Board of Trustees honored Nora Stern and Ellen Dubinsky for 10 years of service as co-chairs of the Best of Missouri Market, at their November meeting. This event is the brainchild of Nora and Ellen who work harder every year to accommodate more visitors and more sponsors and who generate ever increasing creative ideas, resulting in untold dividends for the Garden. In just 10 years, the Best of Missouri Market has developed from a good idea to the premiere event at the Garden. The weekend has grown from a busy one with a good crowd visiting a few dozen vendors to over 21,000 visitors touring over 100 carefully selected vendors. Nora and Ellen were each presented with a beautifully personalized ceramic bowl from Market vendor, Chanticleer Pottery.

TIM PARKER

Left to right: Ellen Dubinsky, Jack E. Thomas, Jr. and Nora Stern



English Channel Cruise

Garden members are invited to discover medieval castles, charming coastal villages, and secluded gardens on a voyage along the coasts of Normandy, Brittany, and the United Kingdom aboard the 122 passenger Clipper Adventurer. Departing May 10, 2002, this 12-day adventure will be enhanced by an experienced on-board expedition team made up of distinguished historians and naturalists. Call the membership office at (314) 577-9500 for information.

Thank You, Holiday Wreath Designers

The spectacular holiday wreaths would not have been possible without the participation of our many exhibitors. Our warmest appreciation goes to:

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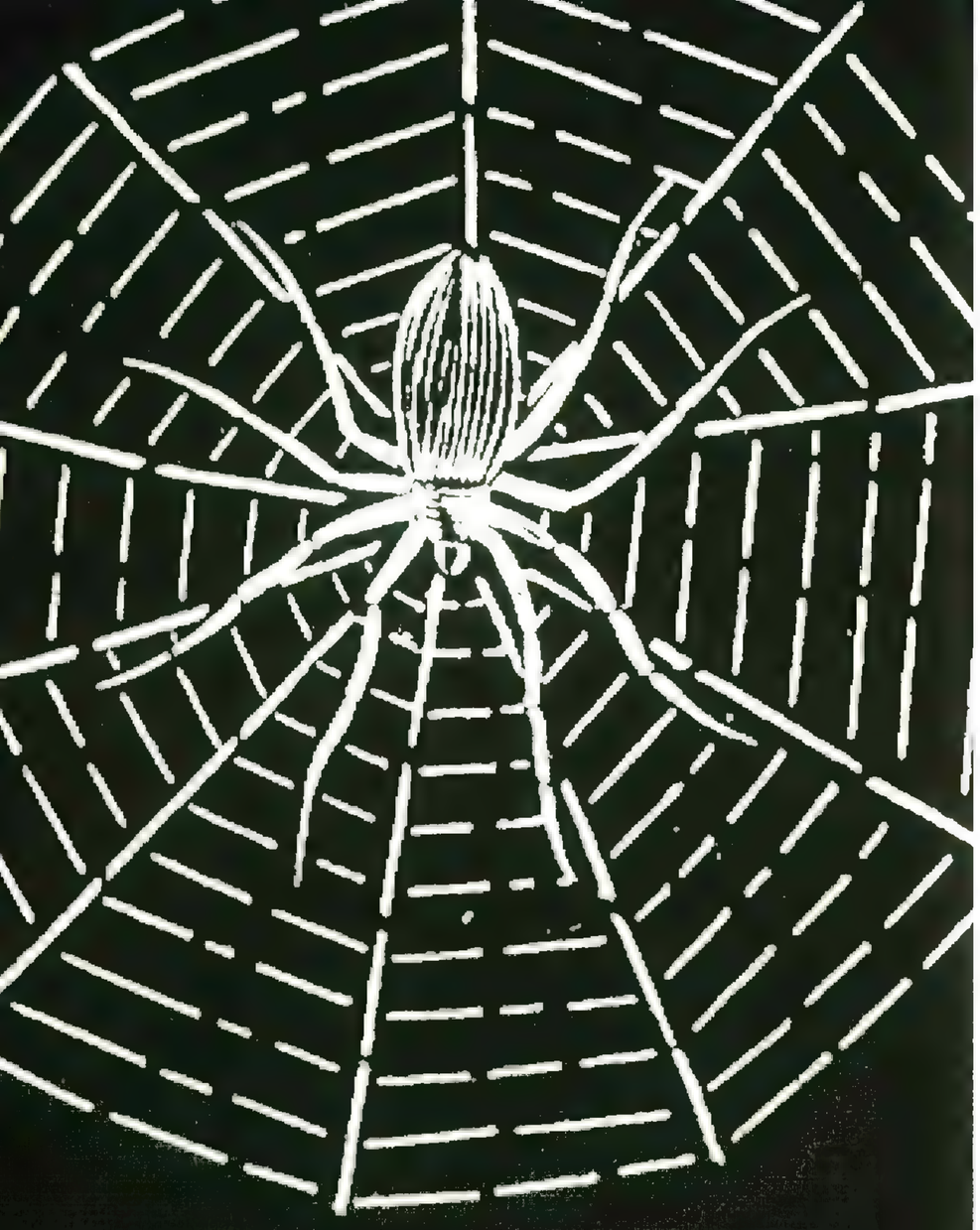


Sophia M. Sachs

Butterfly House

Animals As Architects

The Sophia M. Sachs Butterfly House of the Missouri Botanical Garden has unveiled the blueprints for its next exhibit: "Animals As Architects." Running January 26–May 5, 2002, the exhibit allows visitors to explore how animals construct as elaborate a habitat structure as humans do.

"Animals As Architects" features hands-on activities, giant puzzles, microscope tables, and matching games. Visitors can witness the architecture of the subsurface with a mole and gopher discovery table. A replica of a paper wasp nest and a five-foot model of an African termite mound provide a glimpse of insect architecture. A spider web rubbing station will show visitors the intricacies of spider web design and how to determine what kind of spider designed the web. The exhibit was designed and produced by the Oregon Museum of Science and Industry.

"Animals As Architects" is free with regular admission to the Butterfly House and open 9 a.m. to 4 p.m., Tuesday through Sunday.

Shaw Nature Reserve

Americorps Workers at the Nature Reserve

A team of nine Americorps National Civilian Community Corps volunteers spent five weeks at the Shaw Nature Reserve this fall assisting with a variety of projects. Americorps is a national service program for young adults between the ages of 18 and 24. The program is modeled after the Civilian Conservation Corps of the 1930's.

The team members make a one-year commitment and participate in service projects related to education, protecting the environment, promoting public safety, and natural disaster response efforts.

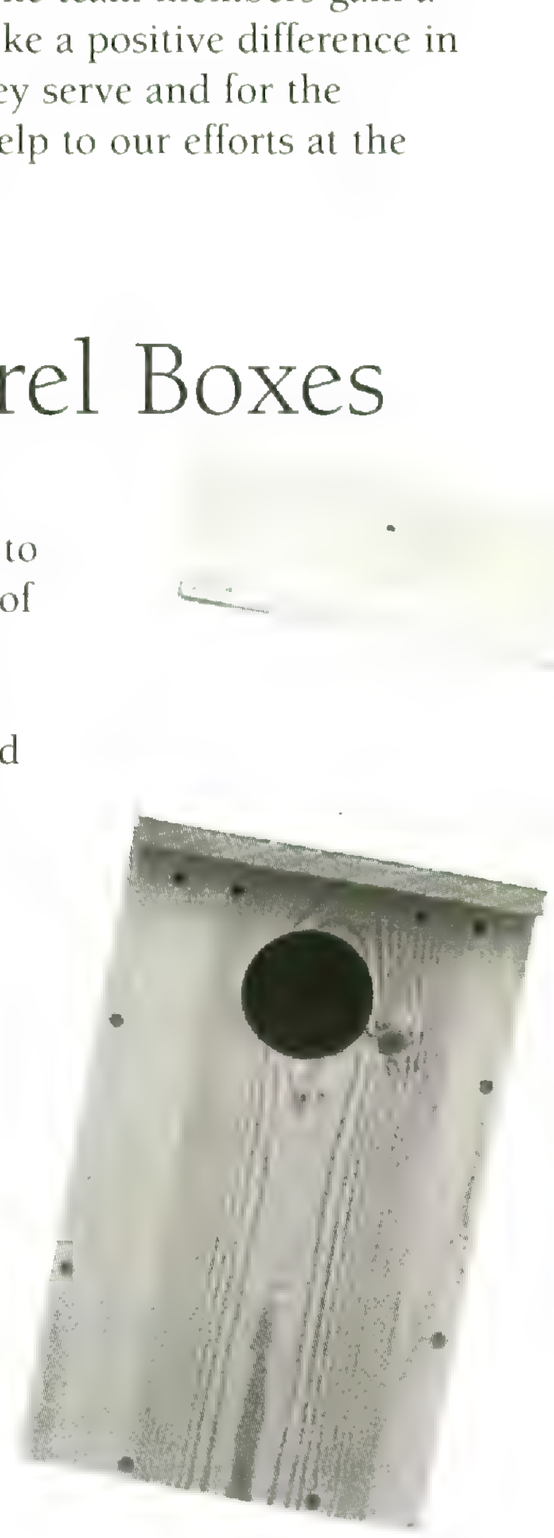
At the Nature Reserve, the team participated in glade restoration, seed collecting and processing, and other ecological restoration activities. John Behrer, director of the Nature Reserve, stated: "The team members gain a deep sense of knowing that they have helped make a positive difference in the lives of others, in the communities where they serve and for the environment. They certainly were a wonderful help to our efforts at the Nature Reserve."

Scouts Donate Kestrel Boxes

American Kestrels, which are small falcons native to this area, will now find it easier to nest at the Shaw Nature Reserve because of eight boxes made by Cub Scout Pack 21, "Eagle Patrol," of Scott Air Force Base.

Pack leader Steve Bates, a Woodworkers' Guild member, and co-leader Tim Penton, assisted scouts Alex Bates, Nick Teague, Ethan Penton, Travis Baumgartner, Michael Estrada, Hunter Swift, Tyler Schlichenmeyer, and Devin Farver build the kestrel boxes to fulfill Cub Scout badges for woodworking and conservation.

John Behrer, director of the Shaw Nature Reserve, said the boxes would be placed in locations favored by Kestrels and visible to visitors who wish to observe this interesting member of the falcon family.



News of Note

Dr. Raven Elected Sigma Xi President

Peter H. Raven was elected president of Sigma Xi, the international scientific research society, in November at its Assembly of Delegates. He has been a member of Sigma Xi for 45 years. Sigma Xi encourages original work in science and technology, promotes an appreciation of the importance of research, and honors scientific achievement. There are nearly 75,000 members in over 500 chapters at colleges and universities, industrial research centers and government laboratories.

"I have participated in local and national Sigma Xi meetings and witnessed first hand the enthusiasm that pervades the chapters and their importance in supporting excellence in science," Raven said.

"At the same time, the outreach programs of the Society have been influential in molding public attitudes toward science," he continued, "and could beneficially become even more so in the future. As president, I will attempt to strengthen what I believe to be a healthy trend to empower and encourage local chapters, which play such a key role in so many diverse settings in promoting science at many levels."

Raven said the international nature of science is also important. "As the world strives to achieve a sustainable use of its resources, science has a key role to play. In the current century, we must find new ways of doing things that will be sustainable and support future generations for the indefinite future."

CPC Honors Dr. Raven's Accomplishments

TIM PARKER

Mrs. Patricia R. Bush presents a resolution from the Center for Plant Conservation (CPC) to Peter Raven congratulating him on "his 30th year of dazzling achievements as the Director of the Missouri Botanical Garden."

The resolution also expressed CPC's gratitude to Dr. Raven and the Garden for "a wonderful home…wise counsel and unfailing support…" Mrs. Bush is member of the Board of Trustees of CPC. She has been active with many St. Louis cultural organizations and with the Garden Club of America.

Bill Ellerman Honored with Special Presentation

TIM PARKER

At a recent reception hosted by the Library, Dr. Peter Raven made a special presentation to Bill Ellerman in recognition of his commitment to help endow a full-time conservator position in the Library. Gifts are needed to meet the Ellerman Endowment Challenge. For more information or to make a contribution, please contact Emma Lee Twitchell in the Development Office at 577-0847.

Bird Feeders Attract a Crowd

We would like to express our appreciation to Wild Birds Unlimited for their generous donation of a station of several feeders for the bird garden at the Kemper Home Demonstration Gardens and a continuing supply of bird food. Visitors enjoy watching the wide variety of birds that the feeders attract.

Wild Birds Unlimited®

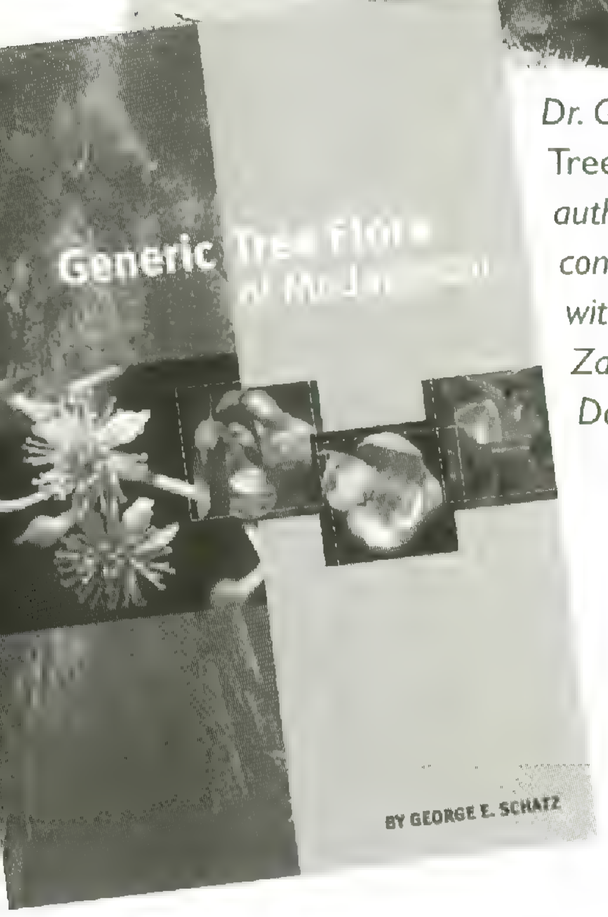
"Rough Science"

Ellen McCallie, an education staff member, was one of five scientists, and the only one from the US, to make a six-episode television series this past summer that was produced by the BBC in England. The show, Rough Science, challenges five scientists to use their knowledge, skill, and wit, combined with the scientific process, to solve problems and challenges in a remote locale. The series was filmed on an island in the West Indies and will air sometime this year. The Missouri Botanical Garden was contacted because of its reputation of excellence in education and in research in the tropics. Ellen was chosen to be on the program because of her tropical research experiences and her British-compatible sense of humor.

L to R: Kate Humble, program host; Ellen McCallie, botanist; Mike Leahy, virologist; Kathy Sykes, physicist; Jonathan Hare, physicist; Mike Bullivant, chemist.

Research

Generic Tree Flora of Madagascar



Dr. George E. Schatz, Generic Tree Flora of Madagascar *author, participates in a commemorative tree planting with Malagasy children Zavatsoa Rakotoarisoa and David Camara.*

On a sunny morning last November at the Parc Botanique et Zoologique de Tsimbazaza (PBZT) in Antananarivo, Dr. George E. Schatz presented his book, a *Generic Tree Flora of Madagascar*, to the people of Madagascar. The event was commemorated by planting a native Malagasy tree. Published simultaneously in both English and French, this practical field manual is the result of a unique collaboration between the Missouri Botanical Garden and the Royal Botanic Gardens, Kew, in concert with the Garden's mutual partners in Madagascar, FO.FI.FA. and PBZT, and the Muséum National d'Histoire Naturelle in Paris. Support for the project came from the National Science Foundation, and through the generosity of Robert-Carl Zimmermann and the Estate of Liliana Zimmermann.

With descriptions, illustrations, keys, and over 3,000 Malagasy vernacular names, *The Generic Tree Flora of Madagascar* is the first comprehensive guide for the identification of the island's 490 genera of native trees, representing approximately 4,220 species. By comparison, the forests of Missouri contain only about 150 species of trees in about 50 genera.

As with Madagascar's unique fauna, the island's long evolutionary history of isolation has resulted in nearly unparalleled levels of endemism: 161 of the genera, and 96% of the species of Malagasy trees occur only on Madagascar. These same unique trees provide food and shelter for the endemic fauna including Madagascar's famous primates, the lemurs.

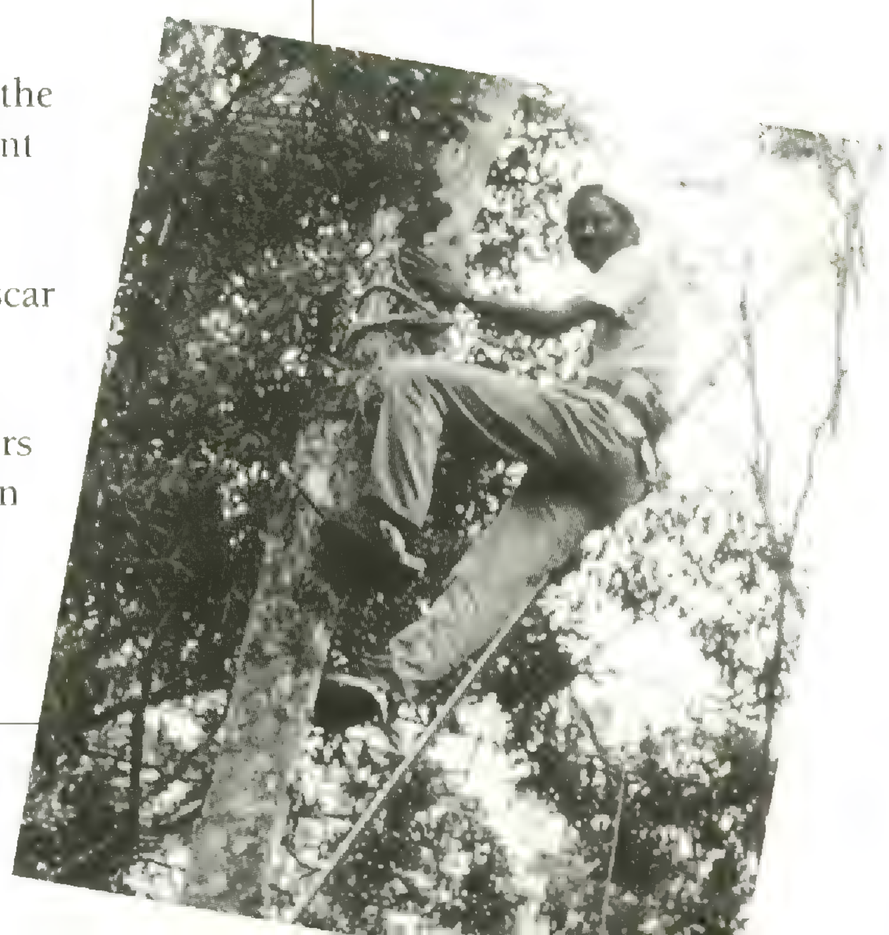
Even more importantly, trees protect watersheds and provide fuel and raw materials for construction, ensuring the welfare of future generations of the Malagasy people.

As Schatz stated at the ceremony: "Perhaps there is no easier, cheaper, or more effective means of ensuring the welfare of our children and grandchildren than planting trees. With only a little care, trees will grow remarkably quickly. Other than raising our own children, there is probably nothing as satisfying as planting a tree, caring for it, and watching as it grows over our heads. And what better trees to plant in Madagascar than Malagasy trees!"

The new book will be especially valuable to the Garden's ongoing training and inventory efforts in Madagascar, as well as new research and conservation initiatives focused on the littoral forests along the east coast of the country.

Garden Researcher to Manage Plant Survival Effort in Madagascar

Dr. Armand Randrianasolo a Malagasy citizen and member of the Garden's Applied Research Department, will play an important role in charting the future for plants in his country. The International Union for the Conservation of Nature has named Dr. Randrianasolo Executive Secretary of the newly created Madagascar Plant Specialist Group. He will manage the day to day efforts of the group initially focused on the conservation and recovery of plants threatened with extinction in Madagascar. Armand earned his Masters and Ph. D. from the joint graduate program of UMSL and the Garden between 1991 and 1998, during which he spent part of each year working in Madagascar. With the responsibilities of his new position, his time in his home country will surely increase.



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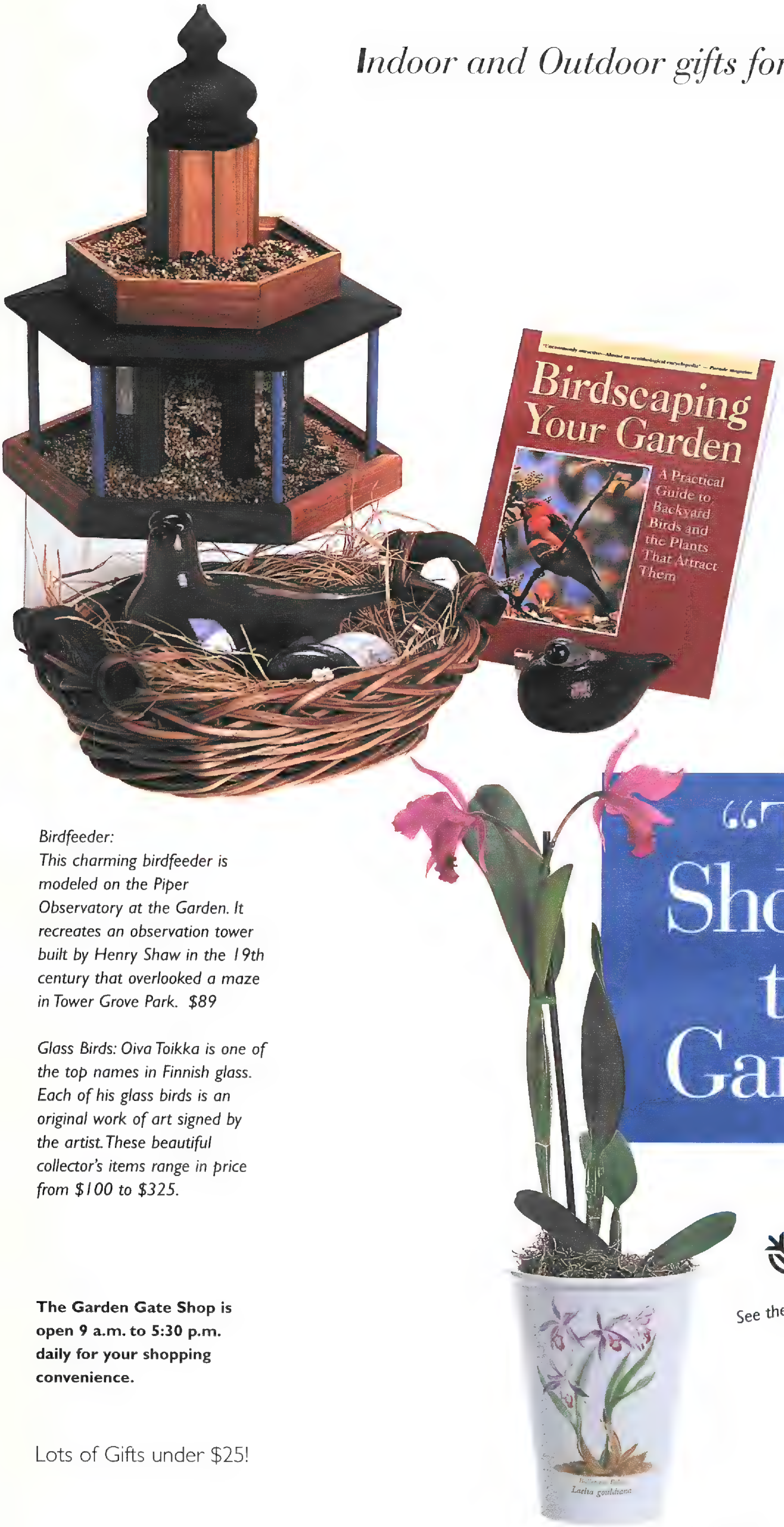

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Missouri Botanical Garden

Bulletin

March/April 2002 Vol. LXXXIXb, No. 2

This edition...

Spring family fun

Save the Earth

Get good dirt

Egg-stravaganza

Koi festival

Notes from the Republic of Georgia

Firefight in Madagascar

Survival in the Amazon (by way of the Climatron)

And more...

Spring fling!

director's comment

Director's Comment

A garden is where the world rights itself in the spring. There is no better place for children. They see seeds sprouting. They can play in the soil. They learn about plants and about life. The warming sun brings birds and insects.

We hope our Garden in St. Louis, the Shaw Nature Reserve, and the Sophia M. Sachs Butterfly House offer you and the children you love those opportunities. Bring them along for a visit, and, while you are here, stop in at the Kemper Center for Home Gardening to pick up some pointers on getting your own garden ready for spring. There's even a children's garden there and it's not far from the Japanese Garden, where children love to feed the Koi (and the ducks who compete for treats). Children love the Climatron too, and now's the time to see if they can survive in our Amazon rain forest adventure.

Every child is fascinated by butterflies, whether they see them in flight or watch the adult butterflies emerge from the chrysalis. There is no better place to witness such natural beauty than in the Butterfly House in Faust Park. But consider too the Whitmire Wild Flower Garden at the Shaw Nature Reserve, which is magnificently in bloom this time of year with both flowers and flutterbys.

Of course, education and interpretation stand at the heart of all these pleasures. They bring us to understand the importance of plants and the preservation of biodiversity and the environment. We celebrate Earth Day on April 20. I hope it brings home this message to everyone committed to the Garden's mission.

Let me take this opportunity to thank once again all of our Members who continue to support our endeavors through your membership, additional gifts to the Henry Shaw Fund, and in other ways, which enable us to achieve the level of excellence that you've come to expect.

Peter H. Raven

Peter H. Raven
Director

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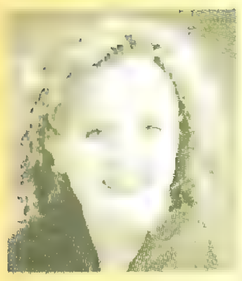


Editor's Note

Must be part of the river city condition, a temptation to wander, but growing up in St. Louis, I was eager to shake that Mississippi mud off my heels and head out for parts unknown. I ended up in graduate school on the East Coast, in journals publishing in Chicago, and in books out West. After ten years away, I landed the opportunity to write a book on my hometown. *St. Louis Then and Now* turned into something of a phenomenon, and in writing that book I encountered the flip side of that river city condition—the current that pulls you home.

Like many of my generation, I hardly knew the city, despite having been raised here, and had only the vaguest of notions as to urban spaces and preeminent cultural institutions. What happy coincidence that one such place—the Garden—had a place for me.

So now my first springtime in the Garden, and please forgive my exuberance, but have you seen the Garden in spring? Can you get enough of the Garden in spring? I can't. And with that first whiff of new grass and dewey breezes, up went the windows and out came the scrub brushes for a round of spring cleaning.

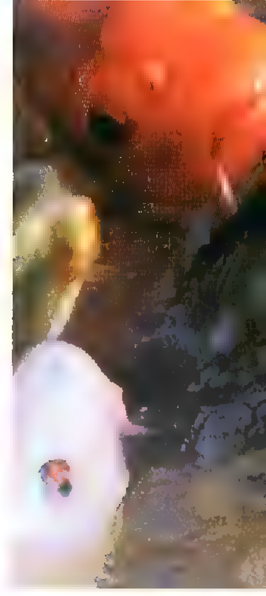
You'll notice some things are different around here. The *Bulletin* is in color, for starters. I hope you'll agree that there's no better way to appreciate the sublime beauty of our Garden when you just can't make it here in person than in glorious four-color professional print. In accordance with Henry Shaw's will, we're re-emphasizing his big three concerns: horticulture, education, and research. So you'll see more home gardening articles, more information about activities for children and families, more tales from the front lines of the Garden's trail-blazing conservation efforts around the world.

Next year is the *Bulletin's* ninetieth anniversary of publication, so it seems like a fitting time to pause and look back. In those nine decades, we've changed a lot, and usually for the better. May this be one of those times...

The Garden enjoys a very large and very dedicated membership. The high return rate of our membership surveys suggests that you are also generous with your opinions. I welcome your suggestions and advice for the *Bulletin*.

elizabeth.mcnulty@mobot.org

spring fling



What better word than "spring" to capture our heart's delight at this most welcome change of seasons? As a verb—to rise, arise from winter's slumber, to issue, emanate the first bold tenders of fresh life. As a noun—not only the season, but also a source, a supply of energy, bounce!—a spring in one's step in the face of the first signs of... spring.

Crocus first, then daffodil and tulip, each bulb in turn consuming winter energy stores to sprout tender green leaves, and eventually those bright flowers so cheering against gray skies. The cycle of life is everywhere visible... in the buds on long-dormant trees and shrubs, in the insects that awaken and buzz in our ears, in the migratory return of birds, the mating rituals of most animal life. Spring is Nature's education for adult and child alike, and where better to witness than the Garden?

Go to the Garden for nature's spring spectacle—the play of rain-washed light on damp new greens ("sunlight embroidery," as Charles D'Orleans called it). And be sure to stop by Kemper Center to find out how that lush lawn can be re-created this year in your own backyard.

Go to the Garden to see beauty in bloom—February's Linnean House is March's Temperate House is April's Garden-wide gorgeous-ity. (Is that a word? In spring, it is.) Keep up on specifics at the "Plants in Bloom" section of our website (www.mobot.org), updated weekly.

Go to the Garden all spring long. Get back to nature and take your loved ones to special events celebrating our Earth, our energy, our art, our family. The Garden in spring becomes the most beautiful stage for all our celebrations.

What better word than "spring"? What better place for spring than at the Garden?

March 9 Dirt Festival. Have we got the dirt! Kemper Center for Home Gardening devotees know we do, and you can find out all about it on page 8.

March 30 & 31 Easter celebrations at the Garden include an egg hunt on Saturday and a special brunch on Sunday. See page 10 for more ideas on seasonal family fun.

April 5 is Missouri Arbor Day. The Garden this year is celebrating not only with free saplings, but a tree for peace. Read all about it on page 9. Children are welcome participants.

April 6 is World Tai Chi Day. Access the harmony and vibrancy of nature through the gentle movement and breathing techniques of Tai Chi. This ancient Chinese art has been used for centuries to channel the body's inner force called "chi" to enhance vitality and promote self-healing.

In the natural beauty of the Garden, participants will develop a higher sense of awareness, relaxation, and inner vitality. The focus on gentle movement and relaxation makes it suitable for young and old alike.

On World Tai Chi Day, practioners from all over the St. Louis area turn out to demonstrate this graceful art in a spectacular setting. Visitors are invited to participate as well. 10 a.m. to 1 p.m. Outdoors, weather permitting.

On Sundays throughout April, the Garden hosts live broadcasts by classical radio station KFUO99.1. Now in its fifteenth year, "Live from the Garden" in Ridgway's Shoenberg Auditorium is consistently acclaimed. See Calendar for details.

April 20 is Earth Day, another great celebration of spring as a season of renewal. For 32 years, people around the world have made this day a focus of peace and harmony with Mother Earth and in 2002, the theme is "Connecting our Communities." The Garden's Earth Day events include educational displays and demonstrations from the region's top environmental organizations, as well as a concert by the Equinox Chamber Players. See page 6 for details.

April 21 and 24 feature the Langston Hughes Poetry Festival. Expose yourself to art: what children don't like about poetry on the printed page is everything they'll love about seeing live, free-flow poetry slamming by nationally acclaimed artists. See the box at right for details on this National Poetry Month celebration of a national hometown hero.

April 27. They're big, they're hungry, they're BAAAACK! It's the first annual Return of the Koi. Each spring the Koi in our Japanese Garden emerge from a semi-dormant state in winter to a vigorous, ravenous existence in spring. Cousin of the common carp, and distantly related to the common goldfish, Koi were first bred by the Japanese over 200 years ago. Depending on the size of the pond, Koi can grow up to two, even four feet in length! Bring the kids to the Japanese Garden and throw the fish some Koi food and check out how big they've grown. The feeding frenzy is a sight to behold.

Langston

The Garden is proud to host the fifth annual Langston Hughes Black Poetry Festival kickoff "Reaching Across the Generations" in honor of Langston Hughes' centennial birthday. Born in Joplin, Missouri, in 1902, Hughes made his home in several locations in Missouri and southern Illinois. By the time of his death in 1967, Hughes was a successful writer and poet, well known for his excellent live readings.

Founded in 1997 as part of National Poetry Month, the Langston Hughes Black Poetry Festival features a week of forums, readings, poetry contests, and performances by nationally acclaimed poets. Among featured artists at this year's festival are East St. Louis Poet Laureate and American Book Award winner Eugene Redmond and co-writer and star of Trimark Pictures' *Slam* Saul Williams. Local educator and activist Ida Goodwin Woolfolk hosts at the Sunday afternoon opening event.

On Wednesday, April 24, there will be a noontime reading, followed by an open mic event. For more information on festival events, call (314) 454-9830 or (314) 521-4031. For Garden information, call (314) 577-9400.

Langston Hughes Festival Kickoff
Sunday, April 21
4 p.m.
Ridgway Center

earth day

by David A. Wilson & Karla G. Wilson, St. Louis Earth Day Co-Directors

Connecting Communities

Understanding the interconnectedness of living things is a concept fundamental to protecting our environment. When an old-growth tree falls in the forest, we all must hear it, if we are to create just and sustainable living for all on our planet.

Earth Day 2001 witnessed millions of people in almost every country on Earth joining in thousands of consciousness-raising activities—a 50-kilometer bike ride in the Philippines to call attention to alternative transportation, protests in Kenya against deforestation, massive planting of trees in Thailand.

In 2002, St. Louis celebrates the 32nd anniversary of Earth Day with the rest of the international community under the general theme of "Connecting Our Communities."

As co-chairman of the St. Louis Earth Day Advisory Board, Garden Director Peter Raven has encouraged a region-wide focus to Earth Day. The Missouri Botanical Garden hosts one of many Earth Day activities throughout the region taking place on the weekend of April 20–21.

Earth Day Expo at the Garden, Saturday April 20

Since 2000, the Garden has hosted an Earth Day event as a way of supporting Earth Share of Missouri—a federation of leading local, regional, national, and international non-profit environmental and conservation organizations, of which the Garden is a member. Working together to support a wide range of programs, these diverse groups help the environment in our state and beyond.

All day Saturday Earth Share organizations will be on hand in the Garden to educate and entertain garden visitors through a variety of displays, demonstrations, and interactive fun activities for adults and kids alike.

At 2 p.m., the Missouri Botanical Garden presents the Equinox Chamber Players, professional musicians committed to environmental projects. Equinox have created Project Earth Day—a five-day, seven-event musical celebration of the Earth, with music that includes recorded sounds of people, animals, and nature.

Selections to be performed at the Garden include "Look in the Eyes of the Dolphin" by P. Schonfeld, "Dark Winds Rising" by Phillip Bimstein, selections from *The Jungle Book*, and the Midwest premier of "Insects: a Musical Entomology in Six Legs" by environmentalist composer John Lampkin.

At three times throughout the day for one day only (April 20), the Garden's greenhouses will be open for public tours—the only such tours available all year. Tours depart Ridgway at 10 a.m., noon, and 2 p.m., and are limited to 20 people per tour, first come, first served. Don't miss out on this unique opportunity to get behind the scenes at the Garden.

The annual Earth Day treasure hunt at the Kemper Center for Home Gardening will also be available for children to get to know the Garden.

A variety of other events take place in the St. Louis area to celebrate Earth Day. For a complete calendar, check out the www.stlouisearthday.org website. For information about events at the Missouri Botanical Garden, call (314) 577-9400.

Earth Day Expo
Saturday, April 20
9:00 a.m. to 4 p.m.
Ridgway Center, Spoehrer Plaza

Welcome to the EarthWays Home

The Garden's Midtown "Green" House

by Jean Ponzi

What can you do to use resources more wisely? There's something for everyone who wants to do more at the EarthWays Home, headquarters of the Gateway Center for Resource Efficiency, a division of Missouri Botanical Garden since 2000.

This handsome Victorian residence was built in 1885 and renovated more than a century later to showcase practical demonstrations of energy efficiency and waste reduction in everyday situations. Tours include:

- ✿ A bicycle power plant
- ✿ A kitchen plugged into the sun
- ✿ A living garbage disposal
- ✿ A lawn you do not need to mow
- ✿ And much more!

Systems and products in the EarthWays Home offer visitors a springboard to rethink product design, consumer choices, and building operations. Features on display are affordable, accessible options for use in homes and businesses—and they can save money while saving energy, water, and many other kinds of resources!

The EarthWays Home is open to the public on the third Friday of every month, with guided tours on the hour from 10 a.m. to 2 p.m. Admission is $2 per person, free to Garden members. Group tours must be scheduled at least two weeks in advance.

New volunteer positions are now available at the EarthWays Home for tour guides interested in resource efficiency innovations! For details contact Jeanne McGilligan at (314) 577-5187.

The EarthWays Home (*shown below*) and Gateway Center for Resource Efficiency is located in the Grand Center arts district of midtown St. Louis, at 3617 Grandel Square. For more information, call (314) 577-0220.

Protecting our Environment:

5 simple things you can do

1 Eliminate energy leaks.
Caulk or weatherstrip doors and windows

2 Compost kitchen and yard waste—and fertilize your garden with the results!

3 Carpool, walk, bike, or use public transportation. When driving, plan your routes for fuel efficiency

4 Purchase durable products with minimal packaging. Ask for as much recycled content as possible.

5 Switch to compact fluorescent light bulbs—your investment will pay back in electric bill savings

Choose Environmental Excellence—Gateway Region provides listings of regional recycling options, inspiring stories of local environmental champions, simple steps for individuals, schools, and businesses, and more! Visit www.ceegr.org.

home gardening

The Red Earth Blues (best plants for clay soil)

by Glenn Kopp

Many of us in Missouri are "blessed" with heavy clay soils in our yards. Although clay soils hold moisture and nutrients well, they present challenges for gardeners. The difficulty of digging aside, clay soils often hold moisture too well for plants that need good drainage, and some plants, such as many herbs, may grow acceptably in clay soils in summer only to succumb to root rot in the winter.

Of course, you can spend many hours working organic material, and in some cases coarse sand, into the soil. Such improvements definitely increase drainage and help aerate the soil. But for many weekend gardeners, such work may entail a larger time commitment than they'd like.

The greatest successes in clay soil come as no surprise. They are among selections of native plants or plants that have been introduced from other parts of the world with a similar soil and climate. Indeed, some introduced plants have been so successful they have become weeds. In Missouri, these weeds include dandelion, buckhorn plantain, and Japanese honeysuckle.

Plants that perform poorly in clay soil are those native to parts of the world with different soil and weather—many primroses, mountain laurel, and delphiniums, for example. If you love them, try them, but don't be surprised if they fail to perform well.

When a plant needs good drainage, look for a high spot in the garden and mix in lots of organic matter, or plant it in a raised bed, or maybe in a container (especially for herbs like lavender and rosemary). The portability of pots provides cold protection in winter.

Where then can we turn for recommendations on the best plants to try in heavy Missouri clay soils? Read on...

Steve Cline of the MBG's Kemper Center for Home Gardening demonstrates some useful soil supplements and improvers available to home gardeners, and proper techniques for implementing them.

4th Annual Dirt Festival

Don't even get your hands dirty while you learn all about prepping and perfecting home soil to grow healthy plants. The Dirt Festival features a variety of lectures by MBG staff and local experts, including: Steven Cline, Glenn Kraemer, Cindy Gilberg, and Bill Spradley. Sponsored by the Healthy Planet, the Bug Store, Gilberg Perennial Farm, G.R. Robinson Seed Co., Trees, Forests and Landscapes, Inc., and St. Louis Arborists.

Participants may register for a soil test, the results of which will be explained the day of the program. Soil tests are $20 for basic or $35 for complete. Advance registration required for soil tests. Call (314) 577-9441.

Saturday, March 9, 8:30 a.m. to noon
Ridgway Center

Help for Gardeners

To help Missouri gardeners, Master Gardener and Kemper Center volunteer Deb Ladd has assembled a list of 200 plants that do well in clay soils, organized by location and type. Some plants you will recognize as old tried-and-true favorites, others may be new to you.

Annuals *Coreopsis tinctoria* (Tickseed)
With its profuse yellow or yellow and maroon-banded flowers, tickseed is a beautiful addition to an annual garden, a border, or a wildflower meadow. The very thin, widely spaced leaves give this plant an airy appearance. Easily grown, it will tolerate dry soil.

Bulbs *Ipheion uniflorum* (Spring starflower)
Each bulb of spring starflower produces sweetly fragrant star-shaped flowers for several weeks. The leaves are grass-like and have an onion or garlic scent when bruised. Most attractive when massed, these bulbs may be planted in drifts in rock gardens, borders, under trees or shrubs or naturalized in lawns.

Ferns *Matteuccia struthiopteris* (Ostrich fern)
Best in consistently moist soil, the finely dissected feathery fronds of ostrich fern decline and may go dormant early if conditions are too dry. The fertile fronds are up to 2 feet tall, dark brown, and are attractive in dried flower arrangements. Ostrich fern will spread rapidly by underground rhizomes to form large colonies, making it a good choice for massing in woodland areas, wild gardens, or near streams or ponds.

Ornamental grasses
Sporobolus heterolepis (Prairie dropseed)
The delicate flower heads of this native grass have the warm toasty scent of popcorn or coriander and rise 1–3 feet above the tufted clumps of 2-foot tall foliage. Prairie dropseed has a fountain-like growth habit and is useful as a groundcover, as a specimen plant, or for native plant gardens. Birds and small mammals are attracted by the seeds and arching growth form. The foliage turns red, orange, and yellow in fall and creamy brown in winter.

Perennials *Baptisia australis* (Blue false indigo)
Blue false indigo has beautiful purplish blue lupine-like flowers borne in erect spikes above the trifoliate leaves. The flowers mature into black seed pods that rattle in the breeze and are an interesting addition to dried flower arrangements. This herbaceous perennial does best in full sun as plants grown in part shade may grow taller and need support. Due to an extensive root system, blue false indigo will tolerate drought, but it should not be disturbed once it is established. Attractive in almost any situation including borders, prairies, cottage gardens, and native plant gardens, this plant is best used as a single specimen plant or in small groups.

Ratibida pinnata (Gray-headed coneflower)
Gray-headed coneflower has downward-pointing bright yellow ray flowers and a dull gray cone-shaped central disk. The disk has a pungent spicy aroma when crushed and is an interesting addition to the garden even when the yellow petals have fallen. One of the easiest prairie plants to grow, gray-headed coneflower blooms in its second year.

Shrubs *Callicarpa americana* (Beautyberry)
The delicate lavender to pink flowers of Beautyberry mature into profuse bright violet to magenta fruits that encircle the nodes of the stems in thick rings. In the St. Louis area, this loose, open shrub will probably die back to the ground in winter and should be grown as an herbaceous perennial. Best when massed at the back of shrub borders, in native plant gardens, or naturalized. Requires only minimal care once established.

Viburnum dentatum (Arrowwood Viburnum)
Arrowwood viburnum is a durable vigorous shrub used for hedges, screens, shrub borders and native plantings. Its white flat-topped flower clusters mature into blue to bluish-black fruits that attract birds and wildlife. The lustrous dark green leaves of this multistemmed shrub with its straight-as-an-arrow branches change to drab yellow, then glossy red and reddish purple in fall.

Trees
Crataegus viridis 'Winter King' (Green hawthorn)
With clusters of white flowers in spring, red to purplish leaves in fall, and bright red fruits that persist throughout the winter, this cultivar of green hawthorn provides year-round interest in the garden. Unlike many other hawthorns, 'Winter King' is largely thornless and resistant to rust and fireblight. It is a good choice for urban plantings in yards and along streets.

Gingko biloba (Maidenhair tree)
The fan-shaped leaves of the Maidenhair or Gingko tree turn a spectacular bright yellow in fall. Easily grown in a lawn or as a street or shade tree, it tolerates the difficult city conditions of compacted soil and air pollution. Male cultivars are preferable as the fruit-like covering on the seeds produced by the female trees is irritatingly odorous.

To learn more

The 12-page fact sheet with the complete list of 200 may be purchased at the Kemper Center. Author Deb Ladd will be conducting an on-grounds class for professional and advanced gardeners discussing plants that do well in shady, clay soil locations Tuesday, May 7. Page 19 has more news on this professional series. Call (314) 577-9441 for registration details.

Arbor Day

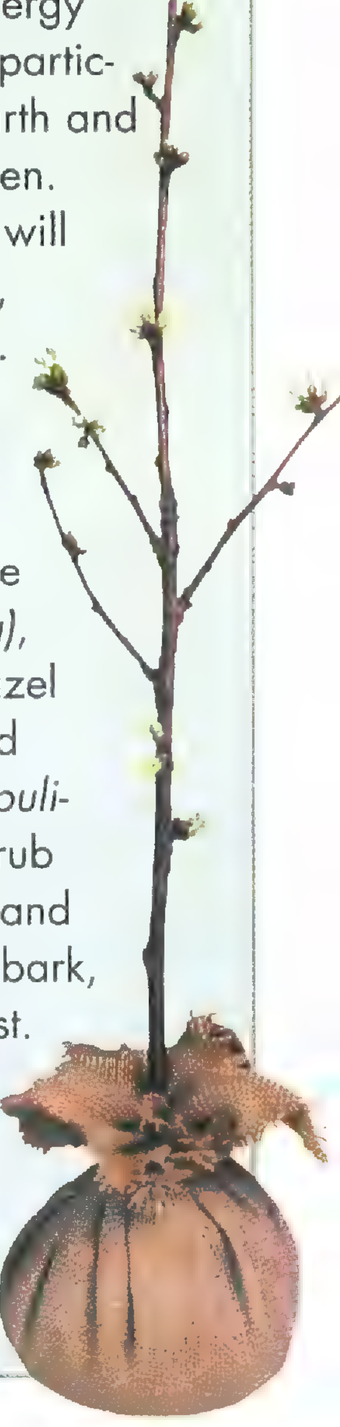
National Arbor Day is April 26, but each state has its own Arbor Day celebration date based on growing season and U.S.D.A. cold hardiness zone. Missouri celebrates Arbor Day every year on the first Friday of April.

The Garden celebrates Missouri Arbor Day at the Kemper Center for Home Gardening. This year, a new feature is the "Peace Tree." Every visitor is invited to write a personal message, thought, or prayer for peace on handmade paper, select a ribbon, and hang the message on the tree.

At months' end, the Garden will enter your thoughts for posterity into our guest ledger, and the all-natural paper will be composted. In this way, all of the peaceful thoughts and energy generated by those who participated will go into the earth and become part of the Garden.

As always, the Garden will hand out trees—this year, small, flowering woodies. By popular request, the 300 trees (available first come, first served) will be the Missouri native dogwood (*Cornus florida*), spring-blooming witch hazel (*Hamamelis vernalis*), and ninebark (*Physocarpus opulifolius*), an ornamental shrub good for erosion control and named for its exfoliating bark, which adds winter interest.

Friday, April 5
9 a.m. to 5 p.m.
Kemper Center



KIDS CORNER

Egg-stravaganza!

Grab your camera and your kids (and grandkids)...it's time once again for Egg-stravaganza! Members are invited to enjoy the Garden in spring while litle ones hunt for eggs, meet "Bunny" the Garden rabbit, even pet real, live bunnies. Refreshments are served. Reservations are required since space is limited, so please call (314) 577-9500 soon.

Members' Event

- ✿ Saturday, March 30, 2002
- ✿ 10 a.m. to 12:30 p.m.
- ✿ Egg hunts held at 10:30, 11, 11:30, and 12. (and will begin promptly!)
- ✿ Children ages 2 to 10

Biblical Gardens

by Susan Farrington

Ever wondered what the plants of the Bible looked like? Spring is a lovely time to take the family to the Biblical Garden in the Shoenberg Temperate House.

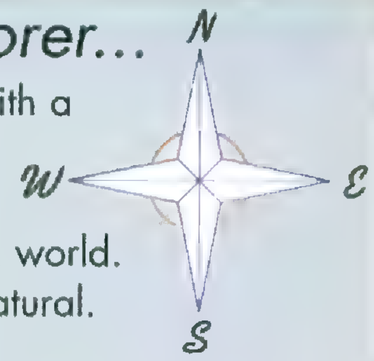
Of the 110 plants mentioned in the Bible, some are a mystery, due to inaccurate translations from Hebrew. Others, such as those signed in the Garden with Biblical passages, are easily identified.

Among the plants featured: a large date palm (*Phoenix dactylifera*) and a stately olive tree (*Olea europaea*), plants cultivated in Biblical lands since 4000 B.C. The date palm serves as a symbol of justice and righteousness in Judges 4:5, perhaps because it was so valued for its many practical uses—from edible fruit and juices to leaf fibers for mats and baskets,to wood for fences and roofs.

The olive also provided abundant fruit. Its oil was used in holy ointments of kings and priests, for annointing the sick, for lighting, and as a solvent for various spices, incenses, and aromatics.

Figs (*Ficus carica*) were also particularly important during Biblical times because their sugary fruit could be dried and stored for fruitless times of the year. The Temperate House fig tree sits above the Moorish Garden, and fruit can be seen ripening all summer long.

Garden Explorer...



Explore the Garden with a child and introduce him or her to the wonders of the natural world. The Garden... it's a natural.

Spring Thing

Objective: identify seasonal changes in plants, practice observing

Age range: 5 to 8

Location: Linnean House and just south of it outside.

Changes in the Garden each spring are dramatic. Temperatures rise, days lengthen, new plants sprout. Buds open to reveal new leaves and flowers. Insects emerge and fly around. Migratory birds return, some sing to attract mates. Children can explore and appreciate these changes with some helpful guidance.

Inside the Linnean House

Draw your child's attention to the camellias. Possible questions: What colors do you see the most? Are they bright colors? Do they have a scent? How are these plants different? The same? Check the thermometer across from the middle door. What is thetemperature? Check the thermomteter outside the far exit showing the outside temperature. Compare.

South of the Linnean House

Peonies... Do you see any differences between the plants that were inside and the ones out here? Most broad-leaf plants do not have leaves yet, and fewer things are in flower—it is too cold and early).

Magnolia trees... Are there leaves on this tree? (If not, discuss the buds.) Do you notice anything unusual about these leaves? (Large, waxy, tough.) These leaves last several years. This tree does not lose all its leaves every year. Buds: What are these things at the ends of the twigs? What do they feel like? (Fuzzy, hairy). These buds protect new leaves. Look for insects at these tree and discuss their role in pollination.

Green Hawthorn tree... Feel these leaves too. Are these leaves like the ones we just felt? How are they different? (Not so tough, shape is different).

Shaw Nature Reserve

March and April are among the most spectacular months to enjoy the rich tapestry of native Missouri wildflowers at the Shaw Nature Reserve's Whitmire Wildflower Garden.

The 5-acre Whitmire Wildflower Garden is one of the largest, most extensive native plant gardens in the Midwest. Visitors stroll along winding trails and observe over 800 species of wildflowers planted in five natural communities. The home garden area provides opportunities to observe planting beds, landscape features, and plant combinations that utilize hardy native plants on a residential scale. Whether visitors are looking for wildflower gardening tips or just to enjoy Missouri's showy native plants, the Whitmire Wildflower Garden is beautiful in the spring.

Established by the Missouri Botanical Garden in 1925, the Shaw Nature Reserve is in Gray Summit, MO, 35 miles west of St. Louis on I-44 (Gray Summit exit 253). In addition to the Whitmire Wildflower Garden, the 2,400-acre reserve is also home to the restored Bascom House (1879) and fourteen miles of hiking trails. Grounds are open daily 7:00 a.m. to one-half hour past sunset. For information, call (636) 451-3512.

Divide and Conquer

The sixth annual Great Perennial Divide sponsored by Gateway Greening, Inc., helps install and maintain community gardens in over 150 green spaces—from schoolyards to vacant lots. Share your extra plants with the community. Last year over 25,000 plants were donated.

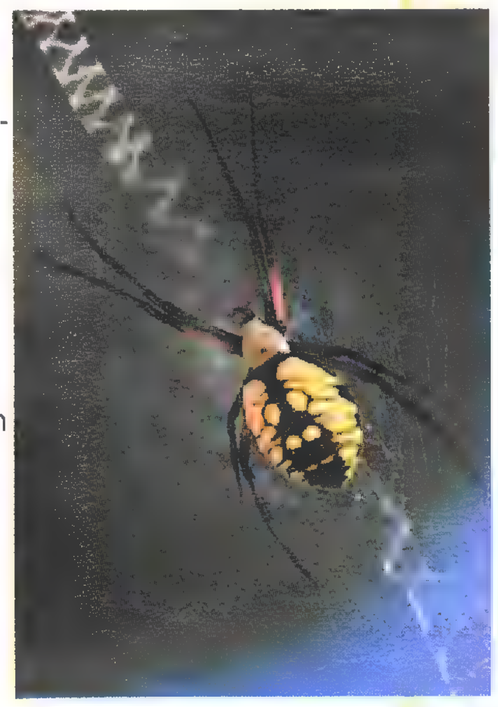
Great Perennial Divide: May 4
Hotline and website: (314) 577-9484
www.stlouis.missouri.org/gatewaygreening
Plant sale: May 4, 9 a.m. to 1 p.m.
Collection sites open: April 13–20
(Check hotline or website for details.)
What is needed: any hardy plant!

Sophia M. Sachs Butterfly House

Who hasn't been amazed by the perfection of a fully formed spider's web glistening in the sunlight with not a strand out of order? Or by the endless replication of identically sized hexagons in a chunk of honeycomb?

The exhibit "Animals as Architects" (through May 5 at the Butterfly House) explores the fascinating world of animal builders and engineers. From spiders and bees to moles and beavers, animals are capable of elaborate habitat construction, and this exhibit allows adults and children alike to learn all about it through a variety of interactive activities and games.

Designed and produced by the award-winning Oregon Museum of Science and Industry, "Animals as Architects" includes replicas of sights rarely seen—the inside of an African termite mound or the underground cutaway view of gopher holes, for example. Visitors can learn how to identify a spider based on web design and how animals are capable of these amazing feats of construction.



A division of the Garden since 2001, the Butterfly House features butterflies in free flight inside a glass conservatory as well as outdoor habitats. Located in Faust Park, Chester-field, MO, the Butterfly House is open daily 9 a.m. to 4 p.m. (5 p.m. in summer). For information, call (636) 530-0076.

calendar

Continuing

Now to March 17: *Orchid show continues. "Gauguin's Tahiti" celebrates the orchids and culture of the lush South Seas islands that inspired this famed French painter. The life-size reproductions of nine of Gauguin's most famous works are rivaled only by the living beauty of Cattleya, Cymbidium, Laelia, and other orchids. $3. Members free. RC.*

Now to March 31: *"Survival in the Amazon" family adventure game continues. See page 24 for details. $3. Members $2.50. CL.*

Now to May 5: *"Animals as Architects" continues. See page 11 for details. BH.*

Now to Sept. 14: *Spring/summer classes and walks for adults and families at the Shaw Nature Reserve continue. For information, call (636) 451-3512. SNR.*

Now to June 20: *Spring classes and tours at the Missouri Botanical Garden for adults and families. Many single- and multiple-session classes are offered in plant care, landscape design, art, cooking, botanical arts & crafts, photography, and more. For information, visit www.mobot.org/gardeninghelp or call (314) 577-9441. KC, RC.*

March

March 9: *Fourth Annual Dirt Festival. See page 8 for details. 8:30 a.m. to noon. RC.*

March 15: *EarthWays Home open to the public. See page 7 for details. EH.*

March 16: *Garden StoryTime, for children ages 4–10. Grade school teacher John Rowe shares stories about spring. Children under age 4 must be accompanied by an adult. 11 a.m. GGS.*

Missouri Botanical Garden and Missouri Department of Conservation present a lecture and book signing of Birds in Missouri *by Brad Jacobs. 5:30 p.m. signing, 6:00 lecture. RC.*

March 16 to April 12: *"Ozarks Up Close." Exhibition of 25 color cibachrome photographs of images of plants and animals in the Ozark region of southern Missouri by Robert L. Kitt of Mountain View, MO. Includes rare and endangered species. 9 a.m. to 5 p.m. RC.*

March 31: *All-new Easter brunch buffet. Reservations required. For information, call (314) 577-9530. $24.95 per adult, $11.95 per child (under 5 free). SP.*

April

April 3–7: *Early Spring Plant Sale. Sale will be in the gift shop and open to the public all 5 days. Members receive 20% off. 9:00 a.m. to 5:30 p.m. GGS.*

April 6: *World Tai Chi Day. Local Tai Chi schools perform in honor of the international observance of Tai Chi Day. 10 a.m. to 1 p.m. Garden grounds.*

April 6–7: *Greater St. Louis Daffodil Society show. Saturday hours are noon to 5 p.m. Sunday hours are 9 a.m. to 5 p.m. RC.*

Mid-America Regional Lily Society sale. 9 a.m. to 5 p.m. RC.

April 7: *KFUO "Live from the Garden." David and Miran Halen, the concertmaster of the SLSO and his wife, will perform virtuoso violin concert pieces, art songs, and popular music of George Gershwin. Noon. RC.*

April 9: *"Wax Lips, Red Beaks, and Copper Beards: Adventures and Misadventures with the Orchids of Australia." Lecture and book signing by Peter Bernhardt, biology professor at Saint Louis University, research associate at the Missouri Botanical Garden, and research fellow at Royal Botanic Gardens, Sydney. 4 p.m. RC.*

April 13–14: *Grand opening of new Eckert's Garden Center, Route 15 and Greenmount Road, Belleville, IL. Enter a drawing to win two plants propagated from Missouri Botanical Garden stock. Special discounts for Missouri Botanical Garden members apply. Chip Tynan, the MBG Answer Man, will be there at 2 p.m. on Saturday to solve your garden gaffes and plant puzzlers.*

April 14: *KFUO "Live from the Garden." Webster Traditional Jazz Ensemble. Traditional jazz played by one of the finest jazz pianists anywhere, Carolbeth True. Noon. RC.*

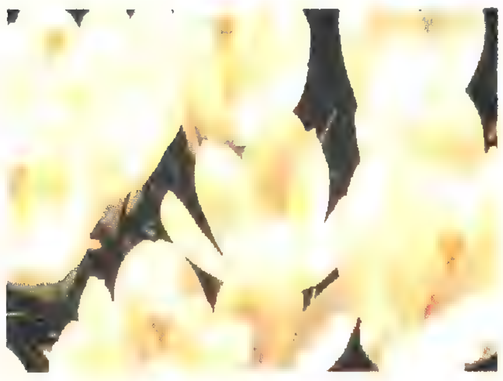
April 17 to May 24: *Exhibition of art by Elizabeth Kincaid. 9 a.m. to 5 p.m. RC.*

April 19: *"Sacred Trees of the Holyland: Old Surviving Traditions and Manner." The 2002 John Dwyer Lecture in Biology will be given by Amots Dafni, acclaimed authority on pollination systems in the Mediterranean. His ongoing studies of plant-human interactions in the Middle East focus on the medicinal and religious customs of Christian, Arabs, and the mountain people known as the Druze. 4 p.m. MC.*

EarthWays Home open to the public. See page 7 for details. EH.

April 20: *Earth Day at the Garden. See page 6 for details. RC.*

Garden StoryTime, for children ages 4 to 10. Poet Connie McIntyre reads in honor of National Poetry Month. Children under age 4 must be accompanied by an adult. 11 a.m. GGS.



April 20: *KFUO Classic Young Heroes in Music*

April 20–21: *"A Grand Collection of Styles," the annual Grand South Grand house tour. 11:00 a.m. to 5:00 p.m. Call (314) 773-4844 for ticket information.*

April 21: *KFUO "Live from the Garden." ConcerTango. St. Louis based ensemble features the music of Astor Piazzolla and the Nuevo Tango fusion of tango, Latin pop, and jazz. Noon. RC.*

Lecture on new directions in rose culture, with an emphasis on low-maintenance and disease-resistant root roses, by Gary Pellet, vice president of Poulsen Roser. 2:30 p.m. RC.

April 21 & 24: *Langston Hughes Poetry Festival. See page 5 for details. RC.*

April 25, 2002

Lecture on the responsibility of people of faith to the environment public lecture. Reception follows. 7 p.m. RC.

April 27: *Return of the Koi. See page 5 for details. JG.*

New Alternatives in Gardening. Ever wonder about labyrinth gardens and Native American medicine wheels? Explore contemporary trends such as Zen and Feng Shui for the home garden. Call (314) 577-9443 for details. 9 a.m. to 5 p.m. KC.

April 28: *KFUO "Live from the Garden." Members of the SLSO. Igor Stravinsky's "History of the Soldier," based on his personal experiences in World War I, played by members of the St. Louis Symphony in its full narrated version. Noon. RC.*

Upcoming

May 4–5: *The Garden's annual Maypole celebration.*

Metropolitan St. Louis African Violet Council show and sale. 9 a.m. to 5 p.m. RC.

Greater St. Louis Iris Society show. Noon to 5 p.m. RC.

May 5: *KFUO "Live from the Garden." Klezundheit! Back due to popular demand, Bob Herman and his 12-piece band play old-world Klezmer music. Noon. RC.*

May 11: *Shaw Nature Reserve's annual native plant sale. 9 a.m. to 4 p.m. SNR.*

May 11–12: *Greater St. Louis Dahlia Society sale. 9 a.m. to 5 p.m. RC.*

Rose Society of Greater St. Louis mini-rose sale. 9 a.m. to 5 p.m. RC.

Bonsai Society of Greater St. Louis show and sale. 9 a.m. to 7 p.m. RC.

May 12: *Mother's Day. All new Mother's Day brunch. Reservations required. For information, call (314) 577-9530. SP. $24.95 per adult, $11.95 per child (under 5 free).*

September 18–October 1: *Join the Garden for a botanical tour and safari in South Africa. Call Diane Bauer (314) 577-5144 for details.*

May 10:

Mother's Day Luncheon and Fashion Show (Members' Day)

Bring your mother and special guest to a delightful luncheon and showing of spring fashions, sponsored by Dillard's. Watch the mail for your special invitation. RC (outdoor tent).

Key

All events are free with admission or membership unless otherwise noted.

BH = Butterfly House,
CA = Cohen Amphitheater
CL = Climatron
EW = EarthWays Home
GGS = Garden Gate Shop
JG = Japanese Garden
KC = Kemper Center
MC = Monsanto Center
RC = Ridgway Center
SNR = Shaw Nature Reserve
SP = Spink Pavilion

Missouri Botanical Garden
4344 Shaw Boulevard
St. Louis, MO 63110

Hours
The Garden is open every day except Christmas, 9 a.m. to 5 p.m., and till 8 p.m. on Mondays from Memorial Day to Labor Day. Parking is free.

Admission
* Free for members
* General admission is $7 ($3 for St. Louis City/County residents).
* Senior admission (65+) is $5 ($1.50 for St. Louis City/County residents).
* Children age 12 and under—free.
* Garden admission is free to St. Louis City and County (ZMD) residents until noon every Wednesday and Saturday throughout the year, (except during Japanese Festival and Best of Missouri Market).
* Special events may require a small additional fee.

Information
For 24-hour, pre-recorded information, call (314) 577-9400. Outside the (314) area code, call toll free 1-800-642-8842.

Tours, Education, Fitness
Walking tours led by Garden Guides leave from the ticket counter at 1 p.m. daily throughout the year (except during Japanese Festival and Best of Missouri Market).

Guided tours of Tower Grove House, Garden founder Henry Shaw's 1851 country home, are available daily, between 9:45 a.m. and 4 p.m. Nominal extra charge. The Tower Grove House is closed each January for renovation.

Hands-on learning activities are presented each Saturday throughout the year from 11 a.m. to 3 p.m. These fun activities are tailored to fit the age range of the audience and utilize toys, puzzles, and games to help visitors learn about plants and their environment. Brookings Interpretive Center or on the Garden grounds.

Garden walkers' breakfasts. In cooperation with the American Heart Association, the grounds open early every Wednesday and Saturday at 7 a.m. to encourage fitness walking. A light breakfast is available for purchase in the Garden Cafe starting at 7 a.m.

members

Members' Events

Thursday, March 14, 2002
Butterfly Gardening
11 a.m. Shoenberg Auditorium

Now is the time to be planning and designing your very own butterfly garden. Learn the secrets of attracting these wonderful creatures to your garden. Mark Deering, entomologist at the Sophia M. Sachs Butterfly House and Education Center, will share great tips and ideas for creating your very own backyard butterfly habitat. In the Garden Gate Shop, members receive an extra 5% discount on butterfly houses, paperweights, books, and children toys.

Friday, April 19, 2002
Mints: A Family of Herbs and Ornamentals
11 a.m. Shoenberg Auditorium

Local author, columnist, and longtime friend of the Garden, Barbara Perry Lawton will share with us her latest book titled. *Mints: A Family of Herbs and Ornamentals* surveys this varied and adaptable plant group long valued for their herbal and ornamental uses, from rosemary to lavender to peppermint. Barbara will sign copies in the Garden Gate Shop after her presentation. Garden Guides will join us in the Herb Garden located next to Tower Grove House for a first-hand look at this popular and adaptable garden favorite. Members receive an extra 5% discount on Barbara's book and on our selection of fresh herbs in the Garden Gate Shop.

See page 10 for details on Egg-stravaganza.

Members' Days are free and presented exclusively for Garden members and their guest. Seating is limited and is on a first come, first served basis. Receive free tram rides, special discounts in the Garden Gate Shop, and 10% off in the Garden Café.

Young Friends Tropics 2002

Young Friends board members (*from left*): Cathy Hudson, Hilary Daniel, Jill Fields, and Jennifer Macalady. Not pictured: Susan Squires.

Monsanto Hall in the Ridgway Center was the setting for "Tropics 2002" on Saturday evening, January 26. A hundred or so guests danced to the old-school funk and soul of PowerPlay, and bid generously on the silent auction items. Our special thanks go to our sponsors for the evening: FM 101 The River, Anheuser-Busch, Union Planters Bank, and our Young Friends Tropics 2002 party committee. The Missouri Botanical Garden Young Friends are a group of men and women who support the mission of the Garden through fund raising, volunteer, educational, and social opportunities. For more information about the Young Friends please call Brenda, (314) 577-0879.

President Susie Schulte stands at left. The new board members are: David Shores, Angie Eckert, Jim Hentschell, Linda Saligman, and Doug Wolter.

Members' board executive committee members are (from left): Marsha Rusnack, Fran Fanara, Nancy Sauerhoff, Susie Schulte, Sally Cohn, Andy Dielmann.

Members' Board

The Members' Board held its annual meeting on January 14. Retiring members were acknowledged, new ones introduced, and the new executive committee was approved.

The new executive committee includes President Susie Littmann Schulte, First Vice President Marsha Rusnack, Second Vice President Andy Dielmann, Recording Secretary Sally Cohn, Corresponding Secretary Nancy Sauerhoff, and Treasurer Fran Fanara. Newly elected members are Angie Eckert, Jim Hentschell, Linda Saligman, David Shores, and Doug Wolter.

President Susie Littmann Schulte also presented a recap of last year's accomplishments.

Save that Stamp

An endangered and ancient plant studied by MBG scientists working in Madagascar will be featured on a new postage stamp there.

Takhtajania perrieri is native to Madagascar and is the only African example of the Winteraceae family, considered one of the most archaic of extant flowering plants.

The plant is a large shrub, averaging about 20 feet in height, and growing in low- to mid-elevation evergreen humid forests.The branches bear numerous flowers, dark red in color, each with a white edge outline.

Valued at 4,400 Malagasy Francs (about 70 cents US), the *Takhtajania* stamp was to become available February 2002, but a general strike in Madagascar has delayed release. The stamps should become available soon. We'll keep you *posted*.

Firefighter in Vohibola

by Kathy Hurlbert

A rare and beautiful remnant of forest that grows down to the beach on the east coast of Madagascar, the Vohibola is is a fragile forest ecosystem, home to many species found nowhere else in the world, but suffering greatly from damage caused by cyclones and humans.

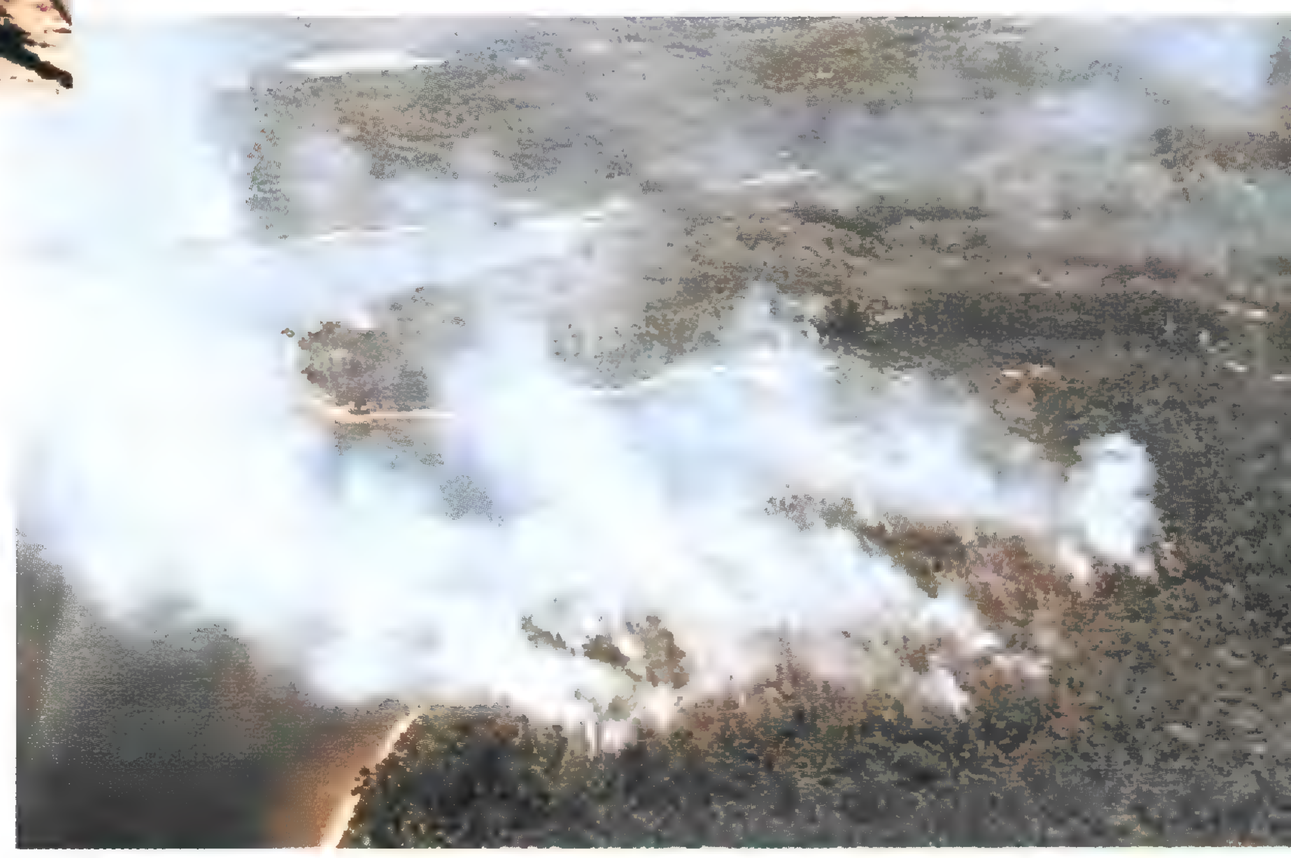
Johny Rabenantonandro and Fidy Ratovoson, MBG botanists working out of the Garden's office in the capital city of Antananarivo, went to the Vohibola in early December 2001 to inventory plants as part of an NSF-funded project in the coastal forests. From their camp they saw flames from two large fires burning out of control.

A forest fire is a disaster for the villagers. They are fishermen or farmers, and the forest is their life—it provides wood for their boats and houses, and fuel to cook food. Outsiders steal wood and frequently start fires to cover their tracks. Johny and Fidy's local guide was afraid that "If it did not rain the following week, Vohibola would disappear."

Back in the office in Antananarivo, everybody agreed that MBG must do something to help save the forest. On December 21, Johny and Fidy returned to one of the villages nearby. As botanists, they had never fought a forest fire, and without helicopters or fire-fighting equipment, they had to rely on the local community. The next day when they arrived at the site of the fire, the people of the village were already there, waiting to help.

Using only their *coupe coupes* (small machetes), Johny, Fidy, and the people from the village worked around the perimeter of the fire, cutting down fresh branches to lay on the fire and smother the flames. They managed to put out more than ten small fires, and thanks to their work and a lucky rainfall, they saved much of the forest. That evening the village elder announced "Starting this day, the people of the village will be very strict about forest protection. If people came from so far to help, we know that our forest is very important."

One of the most important goals of the MBG International Program is to involve local people in caring for their resources. In much of the world, people depend very directly on the environment to survive. Not only did the MBG staff in Antananarivo fight a fire, they made real contact with the people, who began to appreciate the forests around them in a new way. Now if we can work together to create real conservation jobs for local residents as forest monitors or field botanists and assistants, they can protect their own livelihood and save the rare and diverse plant and animal life in places like Vohibola for us all.



Georgia

Vast windswept steppes of tall grasses wave in the wind as far as the eye can see. The snow-capped Caucasus mountains tower in the distance. Sheep and cows roam freely over a land without fences, shaggy wolf-dogs nipping at their heels. The Republic of Georgia seems like a land lost to time, but sadly this is not the case.

Conservation International has recently designated Georgia and the surrounding region one of its 25 global "biodiversity hotspots" because of the area's exceptional number of endemic species (those found nowhere else) and the high degree of threat to those species. With destruction of habitats occurring at a critically rapid pace throughout the Caucasus, largely as a result of the economic turmoil created in the early 1990s by political changes in the former Soviet Union, this area is a high priority for the study of biodiversity and the development of conservation programs.

In 2001, the Trust for Mutual Understanding awarded a $30,000 grant to the Missouri Botanical Garden in conjunction with the Georgian Academy of Sciences Institute of Botany and High Mountain Botanical Garden, in order to inventory and catalog the rare and endangered plants of the western Caucasus, collect seeds, and develop a plan for conservation of these plants in botanical gardens and arboreta in Georgia and the U.S. No small task in a country left so impoverished after the breakup of the Soviet Union.

"It was rough," says Horticulture Director Shannon Smith, part of the team sent in June 2001 along with Operations Manager Jim Cocos. How rough?

"The situation is dire," says Cocos. The botanists there don't even have money to go out collecting, they can't afford gas. The Garden purchased a jeep-type vehicle and fuel so that we could go collecting."

"We were cleaning the seed at night by candlelight," adds bulb expert Jason Delaney, who, along with Dan Moses, formed a second team of MBG scientists to Georgia in September 2001. "Sometimes things we were looking for had been destroyed by feral pigs."

Jim Cocos tells the tale of the search for an extremely rare iris *I. iberica* ssp. *elegantissima*, the "poster child" of Georgian plant conservation. After a long hike to the location where a large stand had been recorded the year before, the team of scientists was dismayed to discover that there were none left. Local people had torn them up to sell as fresh flowers in the market.

The Bakuriani Research Station crew with MBG Horticulture Director Shannon Smith in the Republic of Georgia.

"They have no security," says Smith, "They can't wait twenty years. It will be too late. The only thing to do short-term is to collect these plants into botanical gardens, saving them *ex situ*, out of their natural habitat."

PHOTOS BY SHANNON SMITH

At Risk

Georgia is very rich botanically, with about 4,400 species of vascular plants occurring in an area roughly the size of Tennessee. Of these, about 27% are considered to be at risk, a third of which are found only in Georgia. Topographical and climatic conditions produce a mosaic of habitat types in the country. The southwest is characterized by a warm, humid climate, while the southeast is continental and dry. Mountains ring the north.

"It's a small country, but so diverse—they have everything from tropical to subtropical to alpine to mountain—a two-hour drive takes you from one to another," say Delaney.

In April 2001, a team of three Georgian botanists flew to MBG to do research in the herbarium and library. Georgian Academy of Sciences botanists Marina Eristavi, Shalva Sikhuralidze, and Lamara Asieshvili worked tirelessly with MBG botanist Tatyana Shulkina for almost a month to compile the detailed list of 1,200 at-risk species. (The complete list is available on the Garden website.) The list became the blueprint for plant and seed collection by MBG scientists.

The Plant Hunters

After 24 hours of traveling, Shannon Smith and Jim Cocos landed in Tblisi in June 2001. "We were sort of the advance scouts," says Smith, "We wanted to see what they have in nature, what they have in the greenhouses, what practical things they could do. Jason and Dan did the hard work of physical collecting."

Jason Delaney and Dan Moses arrived in September when most plants were in seed. They hunted plants by day—over 100 different taxa—and cleaned by night, treating the samples for insects and fungus.

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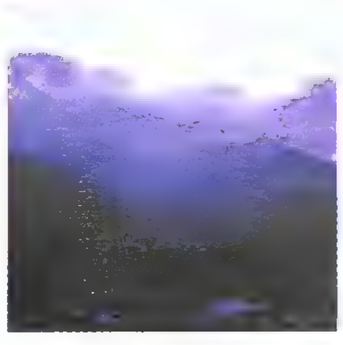


the shop at the Garden

Indoor and outdoor gifts for spring

Celebrate spring with bulbs and bulb planters, diggers, shovels, kneepads, gloves, decorative planters, and live plants galore.

PHOTOS BY TRENT FOLTZ

Spring and summer are butterfly time, and the Garden Gate Shop has everything you need to become a layman's lepidopterist. From books on butterflies and butterfly gardening to stunning bell jar and mounted butterfly objets d'art, you'll find it at the Garden. Handmade blown glass flowers for butterfly feeding make gorgeous gifts for Mother's Day.

The Garden Gate Shop is open 9 a.m. to 5:30 p.m. daily.

Garden Gate Shop
Missouri Botanical Garden
4344 Shaw Boulevard
(314) 577-5137

All proceeds from the Garden Gate Shop benefit the Missouri Botanical Garden.

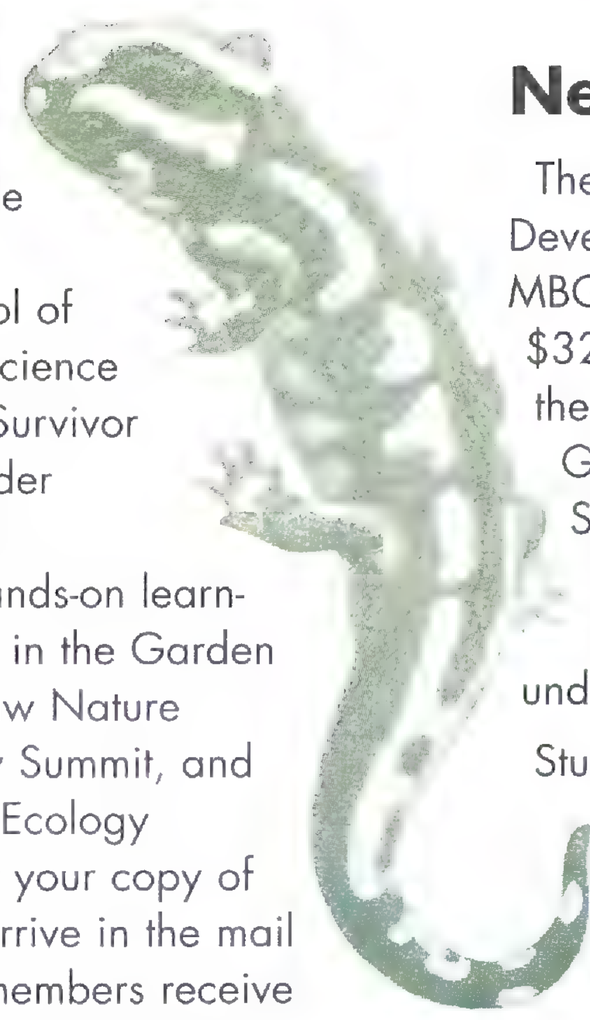
Summer Science Academy

The Garden's tradition of fun and unique opportunities for children continues this year with Pitzman Nature Study Program and Summer Science Academy. Through these programs, children ages 4–14 explore the living world through science adventures and cultural classes.

Children 4–6 and accompanying adults may register for any number of 16 different 90-minute programs throughout the summer. New titles this year include "Birds, Blossoms, and Seeds," "Lotus," and "Leaves." Each class is $15 for Members.

Classes for students entering grades 1–8 run from June 17 through August 16 and last 1–5 days (with costs ranging $25–$125). Offerings include everything from "Muggles School of Plantcraft and Science Wizardry" to "Survivor Missouri" for older students.

MBG offers hands-on learning experiences in the Garden in St. Louis, Shaw Nature Reserve in Gray Summit, and Litzsinger Road Ecology Center. Look for your copy of the catalog to arrive in the mail soon! Garden members receive priority admission until March 22.



New Grant Received

The Dwight D. Eisenhower Professional Development Program has awarded MBG's education division a grant of $32,450 for the program "Mapping the Forests." Under the direction of the Garden's Dr. Robert Coulter and SLU's Dr. Gary Higgs, teachers will receive training to lead their middle or high school students in a larger undertaking.

Students will: (1) Monitor seasonal changes in trees, and track how weather and climate patterns influence these changes. Students will collect local data, report it to an international database, and analyze the larger set. (2) Conduct an inventory of the trees in their defined study site. Through the use of geographic information system software, students will be able to determine the economic and ecological benefits derived from these trees in terms of factors such as reduced storm water runoff and saved energy costs due to the shade provided by the trees.

Horticulture Professional Classes

This spring Adult Education is offering a new series of classes designed for horticulture professionals and advanced gardeners. Taught by Garden staff and area experts, these comprehensive, plant-centered classes will help train professionals in the identification, care, and culture of specialty plants.

According to the Garden's instructional coordinator, Glenn Kopp, "We want to help area businesses train their staff to answer shopper's questions about specialty plants and plant care. We expect that many Garden members will find these classes of interest as well."

Classes run from 6 to 8 p.m. on Garden grounds so students can see the plants first hand. See the spring Adult Education brochure for full details and registration information or read class descriptions on the web at www.mobot.org/gardeninghelp (click on "Adult Education"). Call (314) 577-9441 to have a brochure sent.

Easter Brunch

Enjoy springtime in the Garden at the all-new Easter brunch buffet in historic Spink Pavilion.

Sunday, March 31

Reservations only: (314) 577-9530

Adults $24.95; children $11.95

(5 years and under are free)

Don't forget to make your reservations for our annual Mother's Day Brunch

Sunday, May 12

(Reservations and pricing same as above.)

tributes NOV. – DEC. 2001

For information on making a gift to the Tribute Fund, please call the Development Office at (314) 577-5120.

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By leaving a bequest to the Garden, you create a legacy that will benefit others for generations to come. If you have already included the Garden in your estate plans, we hope that you will share this information with us. We would like to express our gratitude and welcome you into the Heritage Society. Of course, your wishes for anonymity are respected.

Please call Judi Schraer, the planned giving officer, at (314) 577-9455 for further information and a complimentary brochure.

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"GEORGIA" CONT. FROM PAGE 17

Once they searched along the Black Sea for the *Pancratium maritimum* or sea daffodil. After almost an entire day of searching in foul weather, they finally turned back, only to be led to them by a local ranger. "It was a 'sea' of sea daffodils, not 100 feet from our truck," says Dan Moses.

PHOTO BY JIM COCOS

Perhaps most treacherous for the plant hunters, however, was negotiating U.S. Customs. "We filed form after form ahead of time, filing as many as four U.S.D.A. forms per plant," says Delaney. For all four U.S. forms, there had to be matching Georgian forms. "It was a nail biter until the end. The Georgian forms finally appeared the day we were leaving."

The Caucasus Comes to Missouri

Missouri shares several aspects of climate with Georgia, overlapping three of the U.S.D.A.'s North American Climate Zones (5–7), making MBG an excellent location for possible conservation of Georgia's endangered species. And so now the ho... culturists are working to reproduce and grow the plants collected in the Republic of Georgia right here in St. Louis.

"There are so many variables when collecting seed in the wild," says Delaney, "but we are having excellent results. Almost everything sown so far has germinated fully."

Dan Moses just finished transplanting a dozen germinated seeds, some of which he promises will be "absolutely wonderful" perennials for Missouri. Visitors to the Garden may be able to see some of these Georgian rarities as early as next summer.

The Future

"This is the first step, but the work must continue," says Horticulture Director Shannon Smith. MGB researcher Jim Miller currently has another Georgian grant project already in the works for this year.

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Missouri Botanical Garden

Bulletin

May/June 2002 Vol. LXXXX, No. 3

This edition...

Summer in the Garden with Shakespeare

Warm nights, cool sounds

Mother's Day and Roses

Biodiversity Days

Plants of Merit

Rare book bounty

Machu picchu plant hunters

And more...

Summer fantasy

Director's comment

Director's Comment

The Garden's success in reaching out and inviting in will determine our future together. They are activities that are deeply related. They mean that we are inclusive, accessible, and that we carry our activities, our mission, to the Region as well as to the world.

Our Garden and its activities are designed for families, whether here or at the Shaw Nature Reserve in Gray Summit and the Sophia M. Sachs Butterfly House in Faust Park. Check out this issue of the *Bulletin* for the schedule and details of such events as the English Country Faire with its traditional English entertainments and Shakespeare. Don't miss Chinese Culture Days celebrating our relationships with that great civilization through our own Chinese Garden and the major project, the *Flora of China*, which I co-edit with Wu Zhengyi of the Kunming Institute of Botany in China—or the Whitaker Music Festival in June and July, where young and old alike will spread their blankets on the Garden's grass floor on a summer evening. The list of must-sees goes on: there's fun to be had at the Butterfly House habitat garden and much to learn on our first annual Biodiversity Days at the Shaw Nature Reserve.

Over the past year, we have worked with friends on the East Side to take our programs there under the rubric of Shaw's Garden East, guided by an advisory committee chaired by our new trustee, Ralph Korte. Dr. Luther Williams, Director of Education and Interpretation, has engaged school districts there in his planning with those on the Missouri side of the river in a major project to enhance scientific literacy. Gateway Greening and our Horticulture staff are working on urban gardening and projects to recreate natural communities. It is the beginning of a very important bridging of the Region.

Closer to home, the Garden has served as a catalyst to strengthen the neighborhoods immediately adjacent to it and to revitalize the McRee Town neighborhood, only two blocks away. The residents of these neighborhoods are the planners and implementers of this project, as they have been since the beginning three years ago. On March 1, the Board of Aldermen of the City of St. Louis approved the plan and condemnation ordinance for McRee Town. The Garden continues to assist in raising the funds necessary to make a new stable mixed-income community a reality. And it fits nicely with the Medical Center's leadership in revitalizing Forest Park Southeast across from McRee Town.

Now is the time to visit the Garden, the Nature Reserve, and the Butterfly House; to bring your families—children and grandchildren, parents and friends—to enjoy the visually breathtaking displays and the exciting activities we have planned for you; and to partake of our mission to preserve our planet for future generations.

Peter H. Raven

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Editor's Note

Many thanks to the dozens of readers who wrote in to share their opinions on the *Bulletin* redesign. Comments were overwhelmingly positive, ranging from simple notes like "Congratulations" and "GREAT job... a first-class publication" to more substantial emails offering equal parts plaudits and advice. Glenn Hensley of Kirkwood writes "Yes, finally, Mobot has a member publication that equals...the quality of the Garden. We sincerely appreciate the efforts at updating the *Bulletin* in every way—content, design, and color." His missive continued with requests for more behind-the-scenes pieces and better coverage of the Shaw Nature Reserve (I think you'll like page 10 in this issue, Glenn, where we've devoted an entire page to goings-on at the Garden's branch in Gray Summit). Keep those emails coming! We value your input.

Of course, a complete publication overhaul doesn't happen overnight. And it certainly couldn't have happened without the talent and diligence of a whole crew of people. We owe our thanks to the Garden's leadership for envisioning and embracing the new look (and, indeed, paying for it). Thanks too to our staff graphics coordinator Ellen Flesch, whose name was inadvertently left off the masthead, but who nonetheless suffered many late nights for this new publication. And finally, thanks to you, our members, for not only sharing your opinions, but your support and dedication and your passion. And by the way, have you taken your family to see the Garden yet this May? "GREAT job" doesn't come close...

Elizabeth McNulty, editor
elizabeth.mcnulty@mobot.org

summer fantasy

Unlike most of our backyards, the Garden hardly lies dormant in winter. Thanks to the talents of the horticulture staff, there's an abundance of winter display, not to mention the gorgeous conservatories. Right about now, however, when you may just have turned over your vegetable patch, or dug in your last tray of annuals, now when summer's just around the corner, the Garden meantime is bursting with activity, keeping pace with nature in a rush of blooming, planting, programming, and events that just keep building throughout the season. And this year, there's more than ever to see, do, explore, and experience. Many of the tried-and-true are offering something new, and now's the time to check it out. Whether it's the cool sounds of the expanded Whitaker Music Festival, or the newly inaugurated Wizard of Oz display in the Kemper Center's childrens' garden (see page 15 for details), the Garden invites families to enjoy together. Bring a friend or family—your sibling, child, or grandchild—and come see what's growing and going on at the Garden.

PHOTO BY TIM PARKER

English Country Faire takes place the first weekend in May. Catch a performance of English country dancing, featuring regional dance groups and the Capering Roisters. Everyone who wishes is invited to participate in the Dance of the Maypole—it's great fun for kids of all ages, not to mention a colorful spring photo-op for your family. There will be bagpipe music following the dance, and English tea and pastry by Marty's Baking. After lunch, the kids can test their abilities with the treasure hunt at the Kemper Center.

May,

midsummer

Shakespeare, Henry IV, pt. 1

Complete the English theme with a tour of the Victorian Tower Grove House, Englishman Henry Shaw's beloved summer home.

New to the Garden this year, **Shakespeare on the Lawn** spans the first two weekends in May (4, 11). The student actors from the Shakespeare Festival of St. Louis present a 35-minute mini-play *A Midsummer Night's Dream...in the Wink of an Eye*. One of Shakespeare's best-loved comedies, with its flower symbolism and woodland setting, is nowhere better suited than here in the Garden. A stroll through the English Woodland Garden would complete the afternoon.

Just in time for Mom: **Mother's Daze** on the weekend of Mother's Day. Art fair features artists John Stoeckley, Leslie Faust, Marsha Kyle-Becker, and Julie Wiegand. See Shakespeare on the Lawn on Saturday. The DuBourg High School Swing Dancers perform on Sunday. Decorate a festive floral hat yourself or buy one ready-made to benefit the St. Louis Teachers' Recycle Center.

Chinese Culture Days returns the third weekend in May to delight adults and children alike. The 70-foot dragon from Nanjing, China, will dance to open the festival and at various times throughout the weekend. Catch thrilling performances in Cohen Amphitheater by the Shanghai Acrobatic Theater. The Chushan Chinese Opera of Washington, D.C., will sing Chinese operatic roles. Local language schools will perform Chinese myths. Enjoy traditional folk fashions and dancing, arts and crafts, Tai Chi, music, games, Chinese garden tours, and authentic Chinese food.

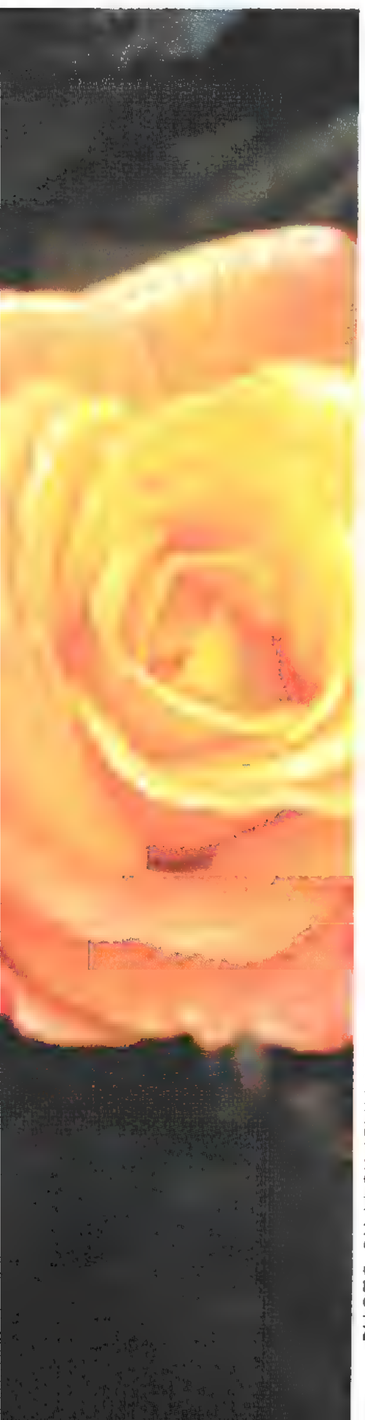


PHOTO BY JACK JENNINGS

PHOTO BY TIM PARKER

Warm Nights, Cool Sounds: Whitaker Music Festival

Now in its eighth year, this special summer series is bigger and better than ever. Newly rechristened in 2002 to reflect the expanding variety of the festival's participants, the Whitaker Music Festival (formerly the Whitaker Jazz Festival) also features a newly extended lineup of eight free Wednesday night concerts, plus one bonus Tuesday, for a total of nine free events, wrapping up on Henry Shaw's Birthday (July 24).

Did you know? The Whitaker Music Festival is one of the few opportunities when visitors are invited to picnic in the Garden. So pack a snack and spend the evening listening to music under the stars. A cash bar is available. Box suppers are also available by advance reservation from the Garden Café: call (314) 577-9530.

The Whitaker Music Festival is made possible by the generosity of the Whitaker Foundation, which supports the arts in St. Louis to promote our common heritage while celebrating our diversity and encouraging the vitality of our community.

June 5: Bosman Twins, "Bi-optic Jazz!"
June 12: Reggie and Mandra Thomas, jazz standards and originals.
June 19: Carolbeth True, virtuoso jazz pianist plays with friends.
June 25 (Tues.): Air National Guard Band of the Central States, featuring the Jazz Ensemble, will highlight 1940s swing.
June 26: Oliver Sain, classic jazz.
July 3: Soulard Blues Band, the one and only.
July 10: Fontella Bass, St. Louis Walk-of-Fame star, will belt out classics including her hit single "Rescue Me."
July 17: To be announced. Call (314) 577-9400 for details.
July 24: To be announced.

Whitaker Music Festival
Eight weeks of Wednesdays
June 5 to July 24
(plus one bonus Tuesday, June 25)
7:30 to 9:30 p.m.
Cohen Amphitheater

economic botany

People and Plants for the Good of the Planet

On February 20, the first meeting of the Economic Botany Advisory Committee took place at the Missouri Botanical Garden. At the meeting, the Garden announced several new initiatives in Economic Botany made possible by the generosity of the Genetic Resources Communications Systems (GRCS) and the Sehgal Family Foundation.

These new initiatives include an endowed curatorship, a graduate student fellowship program, and a biannual prize to be awarded in plant genetic resource and conservation. All are named in honor of William L. Brown, the MBG-trained botanist and founder of GRCS, who was the former CEO of Pioneer Hi-Breed, the world's largest producer of hybrid seed corn.

Economic botany can be described as the study of the interactions between people and plants. More specifically, economic botany focuses on "useful" plants—plants that serve as the source of food, clothing, or shelter; plants that supply the molecules of medicines.

While the main thrust of research at the Garden has been on wild plants, there have been significant efforts to study economic plants from the very beginning. In the 1850s, George Engelmann worked with a group of French scientists to identify species of North American grapes that were resistant to *Phylloxera*, an aphid-like insect that threatened the French wine industry.

In 1986, the Garden was awarded a contract to collect and supply plant material from tropical Africa and Madagascar to the National Cancer Institute in an effort to discover new anti-cancer drugs. This program, still underway, led to other agreements in the 1990s with pharmaceutical and agricultural companies.

Traditional barley threshing in Tibetan Yunnan, China. The Garden's curator of Ethnobotany, Jan Salick, studied traditional agriculture methods there in 2001.

The Garden is also a leader in developing models for ethical and legal frameworks for these bioprospecting programs, ensuring equitable participation by source countries in natural products research and profits.

Today, the economic botany programs at the Garden have expanded. Wendy Applequist studies the taxonomy of plant species important in the U.S. medicinal plant industry. Jan Salick is conducting work in Tibet, studying how indigenous peoples have successfully managed their plant resources. A new curator will work on the taxonomy of the wild relatives of cassava, the sixth most important crop plant in the world, but one that has been largely ignored as a food of the developing world.

Through these economic botany programs, now strengthened through the William L. Brown initiatives, the Garden hopes to preserve and enrich life through useful plants.

PHOTO BY MARY BUTKUS

Dr. Raven with Alicia Brown Matthes, Alice Brown, Dr. Suri Sehgal, and William T. Brown at a dinner at the St. Louis Club on February 20, following the first meeting of the Economic Botany Advisory Committee.

PHOTO BY MBG PUBLICATIONS DEPT.

William L. Brown Curator in Economic Botany

Garden Curator Dr. Jim Miller has been named the William L. Brown Curator of Economic Botany, thanks to a generous grant from the GRCS and Sehgal Family Foundations.

Miller came to the Garden as a graduate student in 1979 and is today head of the Department of Applied Research, which coordinates the Garden's programs in economic botany. A trained plant taxonomist who specializes in tropical Boraginaceae, Miller got involved in economic botany in the early 1990s when he set up a pharmaceutical agreement for research in Madagascar. "Plants have always been the primary source for medicinal compounds. Nature is the world's best chemist," says Miller. He continues to describe new species from both the old and new world tropics, and views applied research as one piece of the conservation puzzle. "Bioprospecting supports botanical research and conservation of endangered species," Miller continues, "At the same time, it has great potential to benefit human health."

2002 Shaw Medal Recipient

On May 8, Dr. William Conway will become the 55th recipient of the Henry Shaw Medal. Dr. Conway is a senior conservationist for the Wildlife Conservation Society—the world's leading non-governmental conservation organization. Until 1999, he served as the organization's president and general director. Throughout his career and as director of the Bronx Zoo/Wildlife Conservation Park, Conway has played a leading role in the redeployment of zoological gardens and aquariums as environmental science and proactive conservation centers. He has written extensively on zoo biology, wildlife conservation, ornithology, zoo exhibition, and Patagonian wildlife. A native St. Louisan and Washington University graduate, Dr. Conway began his career in 1951 as Curator of Birds at the St. Louis Zoo.

New Trustees

Ralph Korte

Ralph Korte founded Korte Construction Company, now one of the largest design/build firms in the St. Louis Metro area, in 1958 and is currently chairman. Mr. Korte is active in numerous organizations, among them, the Leadership Council of Southwestern Illinois, the Regional Business Council, and the United Way of St. Louis. Mr. Korte holds a degree in Business Administration from Southern Illinois University—Edwardsville. He and his wife, Donna, have four children and nine grandchildren. His home is in Highland, Illinois.

Dr. Suri Sehgal

Dr. Suri Sehgal holds a Ph.D. in Plant Genetics from Harvard University and a diploma in business management from Harvard Business School. He is the founder and chairman of Misr Hytech Seed International (Egypt), of the Sehgal Family Foundation (U.S.), and of the S.M. Sehgal Foundation, India. He is the former vice-president of Pioneer Hi-Breed International, and the former Director General and Member of the Board of Aventis Crop Science. He and his wife, Edda, have four children. His home is in Captiva, Florida.

Bishop George Wayne Smith

In his 1889 will, Henry Shaw determined that several people should be Garden trustees "by virtue of their office." Among them is the Bishop of the Episcopal Church.

On Thursday, June 6, at 7 p.m. in the Christ Church Cathedral, the Reverend George Wayne Smith will be officially installed as the 10th bishop of Missouri, when current Bishop Hays Rockwell retires.

Wayne Smith is a native of West Texas, where he grew up in a farming family. He has served parishes in Texas, Michigan, and Iowa, having come to Missouri from St. Andrew's Episcopal Church, Des Moines. Smith and his wife, Debra, are the parents of three teenagers.

home gardening

by Steve Cline, Ph.D.
Manager, Kemper Center for Home Gardening

Prime Plant Picks

The one question that horticulturists constantly are called on to answer is "what plants are best?" It's often the beginning of a longer conversation, as it's not an easy question to answer simply. There are many things to consider, including light exposure, growth rate, form and shape, desirable characteristics, pest and disease tolerance etc, etc. Then, there is the horticultural experience one must draw on that really tells the story—"Will the plant make it here?"

Four years ago, the Kemper Center for Home Gardening staff began working with the horticultural or "greens" industry and the home gardener to make a list of plants that could be distinguished as exceptional plants for the St. Louis area. A state-wide committee of horticultural experts and growers makes the final selections. We now refer to this program as the Plants of Merit and its mission is to assist home gardeners in identifying and locally purchasing plants that are "horticulturally sound" with proven track records for dependable performance in our area.

A Plant of Merit must meet certain criteria to be selected. First, it must grow consistently well with observations for at least five years in the area tested. Second,

it needs to be considered "underutilized" or not widely planted. Third, Plants of Merit must be considered resistant to or tolerant of diseases and insects (this is not to say immune). Fourth, plants chosen are not high maintenance. That does not mean "no maintenance," but that some reasonable yet modest amount of care in the culture of the plant is expected. Fifth, there needs to be some noteworthy ornamental or outstanding characteristic to distinguish the Plant of Merit—such as long-lasting bloom, particularly attractive foliage, unusual shape and form, adaptable to a wide range of climates, etc.

These guidelines give a good amount of flexibility to the program and allow for wide acceptance. Each year, we have introduced about one dozen new plants to replace others on the list. Those that are replaced are labeled as "Emeritus Plant of Merit," which means that they are still good choices, but rotated to make way for other plants that can add variety to the

PHOTO BY MARY KRESSIG

The Kemper Center for Home Gardening boasts 23 different display gardens spread over 8.5 acres to inspire and educate home gardeners.

now 45 individual plants on the Plants of Merit list for 2002. Plants include those chosen in the categories of annuals, perennials, shrubs, and trees. In 2003, this will be expanded to include a new category—native plants.

The list of 2002 Plants of Merit was just published in a color brochure available from the Kemper Center and the Garden Gate Shop. In the brochure is a picture of each plant along with a brief description that highlights noteworthy characteristics and growing tips. We will also provide a list of nurseries and garden centers that are selling certain selections of the Plants of Merit. Over 35 retail stores are participating this year. A participating nursery will post Plants of Merit signs at their location, so you can know what plants are being offered. Start your exploration of the Plants of Merit program with a visit the Kemper Center for Home Gardening to see all of these plants in a landscaped setting. Look for the Plants of Merit signs posted throughout the 8.5 acres of demonstration gardens.

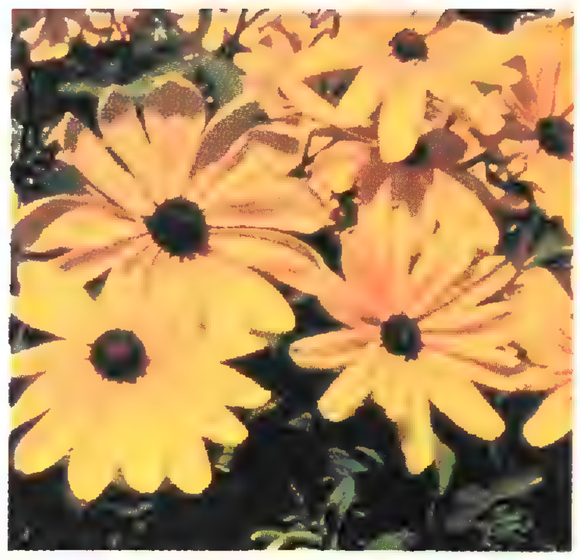
The excitement for this program has grown steadily, as we work together with local retailers to make good plants available. Our partners have also expanded to include University Outreach and Extension, Department of Conservation via the "Grow Native" Program, and members of the "greens" industry so that this effort can be shared statewide to benefit many more gardeners in the lower Midwest.

To obtain a Plants of Merit brochure, stop by the Kemper Center for Home Gardening, or send a self-addressed and stamped #10 envelope along with a check for $2 to Plants of Merit, Kemper Center, Missouri Botanical Garden, P.O. Box 299, St. Louis, MO 63166.

PHOTO BY KEMPER CENTER STAFF

Globe Amaranth
Gomphrena globosa 'Buddy'

PHOTO BY KEMPER CENTER STAFF



Black-eyed Susan
Rudbeckia hirta 'Indian Summer'

Don't Pitch Those Pots!*

Each year, over 80 million tons of plastic waste are generated in the U.S. This kind of plastic can now go to recyclers who grind it into a landscape "timber" that is an excellent substitute for outdoor construction.

The Kemper Center for Home Gardening has received a $25,000 grant from the St. Louis Jefferson Solid Waste Management District and the Department of Natural Resources to once again offer plastic pot collection and recycling in 2002. The collection will begin on Saturday, May 4, and continue through Sunday, June 16, or until we have filled 21 forty-yard roll-off containers—a total of over 100,000 pounds of plastic. There will be six collection locations announced in a separate mailing to all members.

If you would like to volunteer to help staff a collection station, please call (314) 577-9562.

Do something for the environment: recycle your garden plastic! And you'll receive a pass for two to the Garden.

Plastic Pot Recycling
May 4 through June 16
9 a.m. to 4 p.m.
Kemper Center

* At press time, MBG's plastic pot recycling program was awarded the prestigious 2002 Environmental Excellence Award by Choose Environmental Excellence—Gateway Region.

Garden at large

Shaw Nature Reserve Biodiversity Days

May is Biodiversity Month in the U.S., and there are events going on all over the country (see biodiversitymonth.org). As our part of this celebration, the Garden and local natural history groups are sponsoring two days of walks and other studies aimed at cataloging and showing off the remarkable biodiversity of the Shaw Nature Reserve. Join the experts as we learn what's living out at the Reserve, from the smallest lichen to the tallest tree.

PHOTO BY TIM PARKER

Volunteer ecologists testing biodiversity of aquatic life.

Walks will focus on an inventory of plants, animals, and fungi in different parts of the property. Please note walks take two hours. Activity times overlap, so participation in all activities each day isn't possible. Other events will focus on ecology in both aquatic and terrestrial communities. The lists developed during these activities will help the staff with management and preservation of the property.

Activities will take place on Saturday and Sunday, May 18 and 19, rain or shine. The events are free and open to anyone with a serious interest in the natural world. Plan to attend as few as one activity or stay all day each day. Each event will depart from the Maritz Trail House at the Nature Reserve and will last about two hours. Picnic lunches are welcome at the Trail House, which has water, tables, and restrooms, or lunch is available at nearby restaurants in Gray Summit.

Sturdy shoes, sun protection, tick spray, and a water bottle are suggested. The activities will require moderate walking for a mile or more and are not suitable for young children (8 and up please). Events in and around the wetlands and river may involve walking through mud or shallow water. Reservations not required, but please call (636) 451-3512 if you plan to attend. The schedule is listed below.

Help the Nature Reserve while you learn about biodiversity from the experts.

Biodiversity Days
Sat. and Sun., May 18–19
8 a.m. to 5 p.m.
Shaw Nature Reserve

Established by the Missouri Botanical Garden in 1925, the Shaw Nature Reserve is in Gray Summit, MO, 35 miles west of St. Louis on I-44 (Gray Summit exit 253). In addition to the Whitmire Wildflower Garden, the 2,400-acre reserve is also home to the restored Bascom House (1879) and fourteen miles of hiking trails. Grounds are open daily 7 a.m. to one-half hour past sunset. For information, call (636) 451-3512.

Spring Wildflower Sale

Pale purple coneflowers, blazing stars, native ornamental grasses—if you've longed to include them in your garden, Shaw Nature Reserve is the place to find them! The annual Spring Wildflower Sale features the biggest selection of native wildflowers for home landscaping in the St. Louis area. You will also find Missouri native prairie, glade, woodland, and wetland plants and seeds. Call (636) 451-3512 for information.

Spring Wildflower Sale
Saturday, May 11
9 a.m. to 4 p.m.
Shaw Nature Reserve

Biodiversity Days Schedule

Saturday, May 18
8 a.m. Bird walk
8 a.m. Mushroom foray
9 a.m. Pond life
10 a.m. Butterflies of the prairie
10 a.m. Wildflowers in the sun
1 p.m. River bottom butterflies
2 p.m. Monitoring stream life
3 p.m. Ants in the forest
3 p.m. Stalking the lichens

Sunday, May 19
8 a.m. Bird walk
9 a.m. Dragonflies of the Reserve
10 a.m. Butterflies of the glades
10 a.m. Pollinators in action
1 p.m. Forests & meadow insects
1 p.m. Butterflies of the wetlands
2 p.m. Trees of hills and bottoms
3 p.m. Wildflowers in the shade

Outdoor Native Habitat at the Butterfly House.

Go Native at the Sophia M. Sachs Butterfly House

On June 5, the Butterfly House will mark the two-year anniversary of the outdoor Native Habitat. Filled with life-sustaining plants that attract and nurture butterfly lifecycles, the Native Habitat was designed for both native and migratory butterflies. The gardens include host plants, where butterflies lay their eggs, as well as plants that produce nectar to feed butterflies.

Centered around a pond and stream, the Native Habitat is an intricate design of teaching gardens, cool retreats, and places for visitors to relax. The gardens, which include a Woodland Garden, Kitchen Garden, Meadow Garden, and Hillside Garden, offer a range of landscapes for both human and butterfly visitors to enjoy. Each of the gardens is designed to provide visitors with ideas they can transfer to their own backyard habitats. At the heart of the Native Habitat is the Monsanto Teaching Pavilion, an outdoor learning laboratory with enough space to accommodate 75 people. Here, students discover the world of butterflies through hands-on activities and demonstrations.

In just two years, the Native Habitat has drawn rave reviews from visitors and students alike. It has also earned certification as a National Wildlife Federation Schoolyard Habitat. The certification recognizes the Native Habitat as a site that invites and supports "wildlife and learning" as a result of "environmentally responsible planning, landscaping, and gardening."

The Butterfly House is a fun and educational way for families to spend a summer day, but also a tranquil spot for individuals to slow down and admire nature's beauty. So come to the Butterfly House and go native!

A division of the Garden since 2001, the Butterfly House features butterflies in free flight inside a glass conservatory as well as outdoor habitats. Located in Faust Park, Chesterfield, MO, the Butterfly House is open daily 9 a.m. to 4 p.m. (5 p.m. in summer). For information, call (636) 530-0076.

Coming in July:
David Rogers'
Big Bugs!

PHOTO BY DAVID ROGERS

calendar

Continuing

Now to May 5: *"Animals as Architects" continues. Explore amazing animal architecture from termite mounds to beaver lodges. BH.*

Now to May 24: *Exhibition of art by Elizabeth Kincaid. 9 a.m. to 5 p.m. RC.*

Extended thru Jun. 2 by popular demand

Now to June 2: *"Survival in the Amazon" family adventure game continues. Could you survive in a tropical rainforest? Journey into the world-famous Climatron to learn how and win a prize!*

Now to June 18: *"Sculpture from the Farm" oxidized iron by Robert Cumpston. Tues.–Sun., 10 a.m. to 4 p.m. Bascom House at SNR.*

Now to June 20: *Spring classes and tours at the Missouri Botanical Garden for adults and families. Many single- and multiple-session classes are offered in plant care, landscape design, art, cooking, botanical arts & crafts, photography, and more. For information, visit www.mobot.org/gardeninghelp or call (314) 577-9441. KC, RC.*

Now to July 5: *"Treasures of the Andes," an exhibit of watercolors by famed Swedish botanical illustrator Stig Dalström. See his illustrations in several of the Treasures titles published by the MBG Press and available in the Gate Shop. RC.*

Now to Sept. 14: *Spring/summer classes and walks for adults and families continue at the Shaw Nature Reserve. For information, call (636) 451-3512. SNR.*

May

May 2: *Horticulture spring plant sale with the Garden's signature plants and greenhouse overstock. 9 a.m. to 4 p.m. Greenhouse to the right of RC.*

May 4 and every Saturday through June: *MBG again joins the St. Louis Post-Dispatch, KTVI-Fox 2, and the Bug Store to recognize the area's best home gardens in the Great Garden Contest 2002. Watch the newspaper for details.*

May 4–June 16: *Plastic garden pot recycling (see page 9). 9 a.m. to 4 p.m. daily at six locations. KC.*

May 4–5: *English Country Faire weekend (see page 4). Maypole on Saturday at 11 a.m. and 3 p.m. and on Sunday at 2 p.m. Shakespeare on the Lawn at 1 p.m. on Saturday. A bagpiper will perform on Saturday at 12:30 p.m. Garden grounds.*

Metropolitan St. Louis African Violet Council show and sale. 9 a.m. to 5 p.m. both days. RC.

Greater St. Louis Iris Society show. Noon to 5 p.m. both days. RC.

May 5: *Classic 99's* From the Garden, Live® *concert series continues. Klezundheit! Back due to popular demand, Bob Herman and his 12-piece band play old-world Klezmer music. Noon. RC.*

May 8–12: *Garden Gate Shop "For a special Mom" sale. Garden members receive a 20 percent discount. Receive an additional 20 percent off select MBG Press books of framable watercolor orchid prints. 9 a.m. to 5:30 p.m. GGS.*

May 11: *Shaw Nature Reserve's annual spring wildflower and native plant sale. 9 a.m. to 4 p.m. SNR.*

Rose Society of Greater St. Louis mini-rose sale. 9 a.m. to 5 p.m. RC.

PHOTO BY JACK JENNINGS

Don't forget: surprise Mom with a gift membership this Mother's Day, May 12, and in addition to all the member benefits, Mom will receive a special bonus.
Call (314) 577-5118 for details,
or visit us as www.mobot.org.

Bonsai Society of Greater St. Louis show and sale. 9 a.m. to 7 p.m. RC.

May 11–12: *Mother's Daze weekend (see page 5). Art fair and hat decorating. Shakespeare on Saturday at 11 a.m. and 2 p.m. DuBourg High School Swing Dancers on Sunday 12 at and 2 p.m.*

Greater St. Louis Dahlia Society sale. 9 a.m. to 5 p.m. both days. RC.

May 12: *All new Mother's Day brunch. Reservations required. For information, call (314) 577-9530. SP. $24.95 per adult, $12.95 per child (under 5 free).*

May 17: *Tours of EarthWays Home. Third Friday of each month. Tours last approximately 45 minutes and begin at 10 a.m., 11 a.m., noon, and 1 p.m. No reservations. EH.*

May 18: *Garden StoryTime for children ages 4–10. St. Louisan Angela Chostner reads and speaks about* Remembering Mama, *a poignant new story she illustrated. Children under 4 must be accompanied by an adult. 11 a.m. GGS.*

May 18–19: *Chinese Culture Days celebrates "Diversity in Culture; Unity in Action" this year. See page 5 for details. $7 adults, $5 seniors, free to Garden members and children age 12 and under.*

Shaw Nature Reserve Biodiversity Days. See page 10 for details. 8 a.m. to 5 p.m. both days. SNR.

St. Louis Horticultural Society show and sale. Saturday noon to 5 p.m. Sunday 9 a.m. to 5 p.m. RC.

May 25–26: *Rose Society of Greater St. Louis show. Saturday hours noon to 5 p.m. Sunday 9 a.m. to 5 p.m. RC.*

May 27: *Memorial Day. First day of the Garden's extended Monday hours for summer. From today through Labor Day, visitors can enjoy the beauty of the Garden on Monday evenings until 8 p.m.*

New for 2002: box suppers will be available at the Café for Monday night dining al fresco. The ice cream cart on the plaza will offer dessert.

May 30: *St. Louis Water Gardening Society hosts speaker Joe Tomocik from the Denver Botanic Gardens. He will speak on aquatic display and dicing techniques. Book signing before and after. 7 p.m. RC.*

Key

All events are free with admission or membership unless otherwise noted.

BH = Butterfly House,
CA = Cohen Amphitheater
CL = Climatron
EH = EarthWays Home
GGS = Garden Gate Shop
JG = Japanese Garden
KC = Kemper Center
MC = Monsanto Center
RC = Ridgway Center
SNR = Shaw Nature Reserve
SP = Spink Pavilion

# of events

June

June 1: *The St. Louis Carnivorous Plant Society's third annual show and sale. 10 a.m. to 5 p.m. RC.*

June 1–2: *Federated Garden Clubs of Missouri show and sale. Saturday noon to 5 p.m. Sunday 9 a.m. to 5 p.m. RC.*

June 5, 12, 19, 25, 26, July 3, 10, 17, 24: *Whitaker Music Festival, featuring Jazz in June. See page 5 for details. 7:30 p.m. CA.*

June 8: *Greater St. Louis Iris Society show. Noon to 5 p.m. RC.*

June 12: *"Lewis and Clark Confront the Myth and Reality of the Botanical World." A lecture with book signing by Daniel Botkin, professor at UC–Santa Barbara and president of the Center for Study of the Environment. RC.*

June 15: *Garden StoryTime for children ages 4–10. Local author Molly Bunton reads from her new mystery,* The Little Maestro, *with Garden photographer Jack Jennings. Children under age 4 must be accompanied by an adult. 11 a.m. RC.*

"Thank You, Daddy" Father's Day celebration concert. 7:30 p.m. Enjoy the fabulous music of Johnnie Johnson under the stars; enter to win one of 10 special 2000 baseballs auographed by Ozzie Smith. Seats are $15. Call Metrotix (314) 534-1111.

June 15–16: *Mid-America Regional Lily Society show. Saturday noon to 5 p.m. Sunday 9 a.m. to 5 p.m. RC.*

June 17–August 16: *Summer Science Academy offers a variety of fun summer programs for children ages 4–14. Hands-on learning at the Garden's main campus in St. Louis; at the Shaw Nature Reserve in Gray Summit; and at the Litzsinger Road Ecology Center in Ladue. Enrollment is first come, first served. So, don't delay, enroll today. For information, call (314) 577-9506.*

June 21: *Tours of EarthWays Home. Third Friday of each month. Tours last approximately 45 minutes and begin at 10 a.m., 11 a.m., noon, and 1 p.m. No reservations. EH.*

June 22: *Arthritis Foundation Walk of Life. Enjoy a brisk walk in the Garden and benefit the Arthritis Foundation. Call the Arthritis Foundation at (314) 991-9333 for details. 7:30 a.m. to noon.*

June 23: *West County Daylily Society show and sale. 9 a.m. to 5 p.m. RC.*

Upcoming

July 15–Oct. 6: *David Rogers' "Big Bugs" invade the Butterfly House and the Garden! Featuring 25-foot long ants, a dragonfly with a wingspan of 17 feet, and an 18-foot praying mantis among others, "Big Bugs" raises awareness of one of nature's most overlooked families. Handcrafted of natural materials, these oversized arthropods are sure to amaze! 9 a.m. to 5 p.m. daily. For information, visit www.butterflyhouse.org or call (636) 530-0076. Swarms of special events are planned.*

September 5–21. *Garden members are invited to experience the mystery of the Orient as we travel to Japan and South Korea on the 128-passenger Clipper Odyssey accompanied by a distinguished group of experts. Members receive special discounted rates. Call the membership office (314) 577-9500 for details.*

September 18–October 1: *Join the Garden for a botanical tour and safari in South Africa. Call Diane Bauer (314) 577-5144 for details.*

PHOTO BY TIM PARKER

Father's Day!

June 16

This Father's Day, June 16, when you give Dad a gift membership, he gets the Whole Thing® and more from Waterway Gas and Wash®—"The Best Car Washes in Town." Dad will also be entered into a drawing for a Clean Club Membership. Offer valid May 18 to June 16, 2002. Call (314) 577-5118 for details, or visit us at www.mobot.org.

Missouri Botanical Garden
4344 Shaw Boulevard
St. Louis, MO 63110

Hours
The Garden is open every day except Christmas, 9 a.m. to 5 p.m., and till 8 p.m. on Mondays from Memorial Day to Labor Day. Parking is free.

Admission
* Free for members
* General admission is $7 ($3 for St. Louis City/County residents).
* Senior admission (65+) is $5 ($1.50 for St. Louis City/County residents).
* Children age 12 and under—free.
* Garden admission is free to St. Louis City and County (ZMD) residents until noon every Wednesday and Saturday throughout the year, (except during Japanese Festival and Best of Missouri Market).
* Special events may require a small additional fee.

Information
For 24-hour, pre-recorded information, call (314) 577-9400. Outside the (314) area code, call toll free 1-800-642-8842.

Tours, Education, Fitness
Walking tours led by Garden Guides leave from the ticket counter at 1 p.m. daily throughout the year (except during Japanese Festival and Best of Missouri Market).

Guided tours of Tower Grove House, Garden founder Henry Shaw's 1851 country home, are available daily, between 9:45 a.m. and 4 p.m. Nominal extra charge. The Tower Grove House is closed each January for renovation.

Hands-on learning activities are presented each Saturday throughout the year from 11 a.m. to 3 p.m. These fun activities are tailored to fit the age range of the audience and utilize toys, puzzles, and games to help visitors learn about plants and their environment. Brookings Interpretive Center or on the Garden grounds.

Garden walkers' breakfasts.
In cooperation with the American Heart Association, the grounds open early every Wednes-day and Saturday at 7 a.m. to encourage fitness walking. A light breakfast is available for purchase in the Garden Cafe starting at 7 a.m.

members

Members' Events

PHOTO BY TIM PARKER

Rose Evening
Thurs., May 23
5:30 to 8:30 p.m.
Garden grounds

Rose Evening—it's the perfect way to signal the official start of summer. Members are invited to enjoy live musical entertainment, cash bar, demonstrations in the rose gardens by MBG horticulture staff and by the Rose Society of Greater St. Louis. Visit Tower Grove House. Receive an extra 5% discount on all rose items and books in the Garden Gate Shop and a long-stemmed rose to take home. Free, for members only. A buffet supper is available from the Garden Café at $22.95 per person, by advance reservation only. Call (314) 577-9500 for reservations by May 17.

Big Band
Friday, June 7
5:30 to 9 p.m.
Spoehrer Plaza

Bring a picnic supper, blankets or lawn chairs, and enjoy an evening of music under the stars with the Gateway City Big Band. Concert begins on Spoehrer Plaza at 7:30 p.m. Limited concert seating is available on a first come, first served basis. Cash bar. In the Garden Gate Shop, members receive an extra 5% discount on CDs.

Lecture
Thurs., June 13
11 a.m.
Shoenberg Aud.

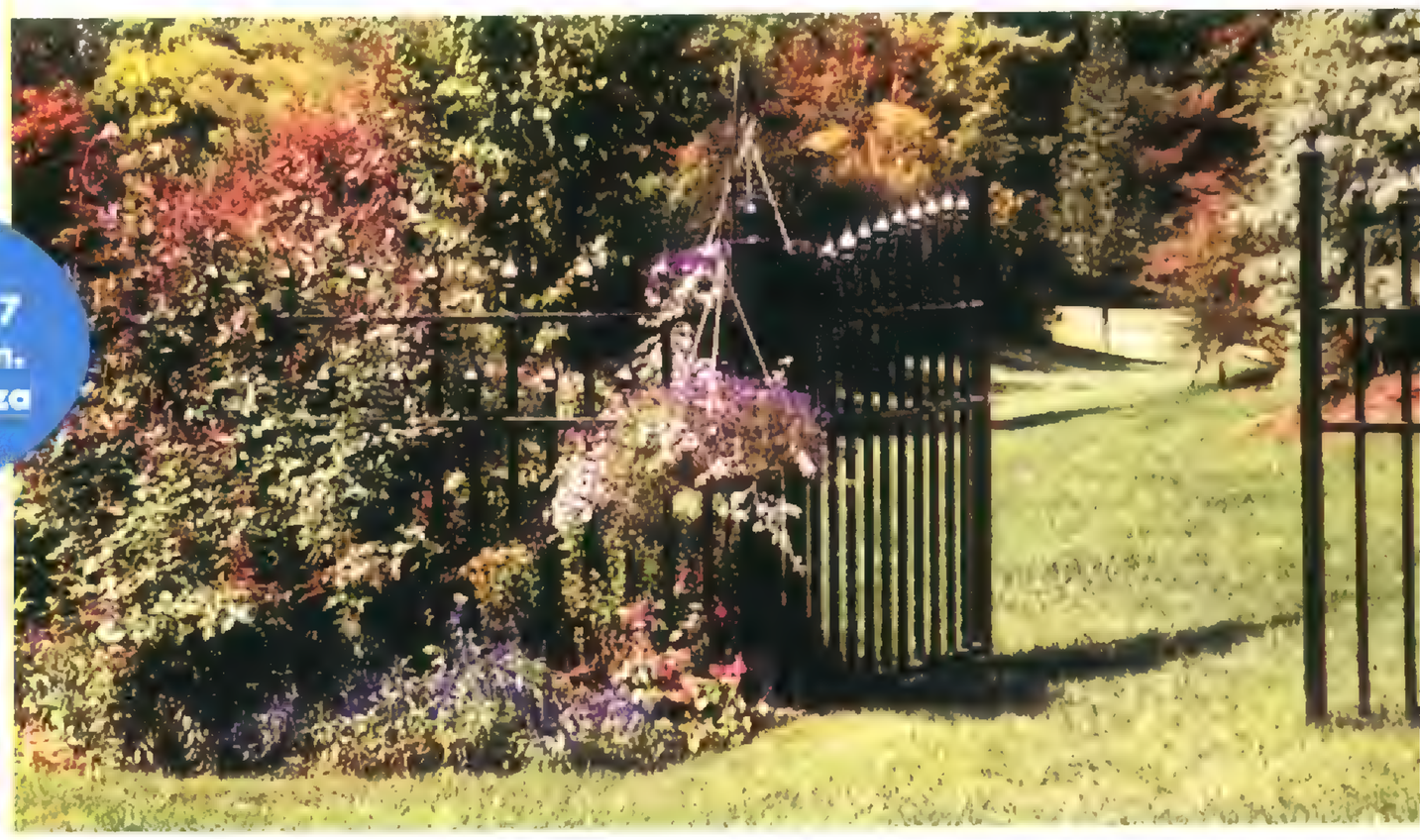
Come hear a special Members' Day presentation by Francesca Consagra, Saint Louis Art Museums' Curator of Prints, Drawings, and Photographs. The lecture will focus on the current special exhibit at the Saint Louis Art Museum, "Henri Matisse/Ellsworth Kelly: Plant Drawings." More than 100 rarely exhibited plant drawings are in the exhibit. Free passes to view the exhibit will be made available at the lecture.

Members receive free tram rides, special discounts in the Garden Gate Shop, and 10% off in the Garden Café.

A Salute to Mom

Join us for a Mother's Day Luncheon and Fashion Show "A Salute To Mom," sponsored by Dillard's. Vickie Newton, News 4 Anchor/Reporter will serve as master of ceremonies. Attendance drawing, cash bar, $50 per person. Reservations must be received by May 3, 2002; see the invitation mailed recently to all members or call (314) 577-9500.

Mother's Day
Friday, May 10
12 noon
outdoor tent



Garden Tour 2002

Once every three years, the Missouri Botanical Garden hosts a garden tour of private homes. This summer, members and their guests are invited to tour nine of the loveliest private gardens in St. Louis. This unique opportunity affords stunning examples of private spaces from city gardens to vast backyard vistas, from whimsical pool landscapes to wildlife habitats. Watch the mail for your invitation. Bus transportation, tour, and box lunch are available for $60 per person. Buses will depart from the Ridgway Center at the Missouri Botanical Garden, 4344 Shaw Boulevard, and will board between 9:30 and 10 a.m. Reservations are limited, so please call (314) 577-9500.

Garden Tour
Sunday, June 23
10 a.m. to 4:30 p.m., rain or shine
$60 per person by bus ($40 without transportation)

KIDS CORNER

Wizard of Oz Comes to the Kemper Center

"Lions and tigers and bears. Oh, my!" See Dorothy and pals as they stroll the yellow brick road at the Kemper Center on display all summer long. Oversized constructions of Dorothy, Tin Man, Cowardly Lion, and Scarecrow stand around the house that fell on the Wicked Witch (her feet still visible), and amuse visitors starting this May. And it all started with a breeze...

"We bought these incredible wind sculptures at the Kemper Center this year, so wind, even tornados, became a kind of theme for us," laughs Kemper Center supervisor June Hutson.

Bring the kids and grandkids for fun and photos with this delightful new addition to the Kemper Center children's garden.

Garden Explorer...

Explore the Garden with a child and introduce him or her to the wonders of the natural world.
The Garden... it's a natural.

Objective: practice observation and identify many uses of plant parts

Age range: 8–11

Location: Temperate House, Rose Garden, Kemper Center

Plants have always played an integral role in human activities–as food, as building materials, as the source of medicines, perfumes, instruments, even as weapons. The Garden features an abundance of product plants in several areas. Here are a few to discuss with a child:

Temperate House

almonds, olives, figs: These trees bear edible fruit. Have you eaten these before?

papyrus: What does this plant remind you of? (grass). Look at its name. What do you think it is used for?

Rose Garden

rose: What can we use this for? (perfume, flowers). We can also use the rose hips for potpourri and teas.

Finish with a visit to the Kemper Center for Home Gardening where you can explore many ideas for useful plants at home.

PHOTO BY JACK JENNINGS

StoryTime

Local author and teacher Molly Bunton reads from her new mystery, *The Little Maestro*, illustrated by Garden photographer Jack Jennings. StoryTime happens the third Saturday of every month at 11 a.m. in the Garden Gate Shop. Guardians are welcome to attend; children under age 4 must be accompanied by an adult. Included with regular admission or Garden membership. Check the Calendar (pages 12–13) for details.

rare books

Digitizing Rare Books from MBG's Library

"What a wonderful use of the web! This is beautiful! The illustrations of medicinal plants in Köhler's work add colour and flair to my lectures."

"I like the way the site is organized, and the fact that I can search through pictures based on the scientific name rather than just the name of the book they came from."

"Thank you so much for hosting such a beautiful and useful site. I'm an illustrator and looked at the book Köhler's Medizinal Pflanzen. I'm so pleased to have this site available on the web. Keep up the good work."

These are just a few of the comments Chris Freeland has received about the new Rare Book website since it was launched in June 2001. Chris and his imaging team, currently consisting of Leslie Miller, Fred Keusenkothen, Wendy Westmoreland, and volunteer Alexis Lansing, have been digitizing rare books from the MBG Rare Book library since 1995. The first book digitized in its entirety, *Afbeeldingen van zeldzaame gewassen* ("Illustrations of Rare Plants") by Dutch botanist Nicolass Neerburgh, was recently made available on-line. Fifteen volumes have been scanned so far in the project, and another 12 are pending. The website is http://ridgwaydb.mobot.org/mobot/rarebooks/.

Actual scan made during the photograph at below left. A fine illustration by Pierre Redouté.

In part due to the five years of prior experience, in 2000, the Andrew W. Mellon Foundation invited the Garden to participate in its Rare Books Digitization and Preservation Pilot Project. This project has several collaborators—among them the Oak Spring Garden Library (the collection of Mrs. Paul Mellon), the New York Botanical Garden (NY), the Royal Botanic Gardens-Kew (K), and the Natural History Museum in London (BRIT)—and will result in the digitizing of a large collection of rare botanical and gardening books, and the construction of a database to make these books available to scholars and gardeners over the Internet.

Why digitize rare books?

Digitizing (or electonically photographing) rare books and making them available on the internet serves several purposes. It will certainly enhance scholarship by making these texts more widely available. Researchers typically must request library loans to view illustrated works, and works this rare are often unloanable. Thus, through the web, the botanical scholars, researchers, and historians, who have need will be able to access these books

PHOTO BY MBG PUBLICATIONS DEPT

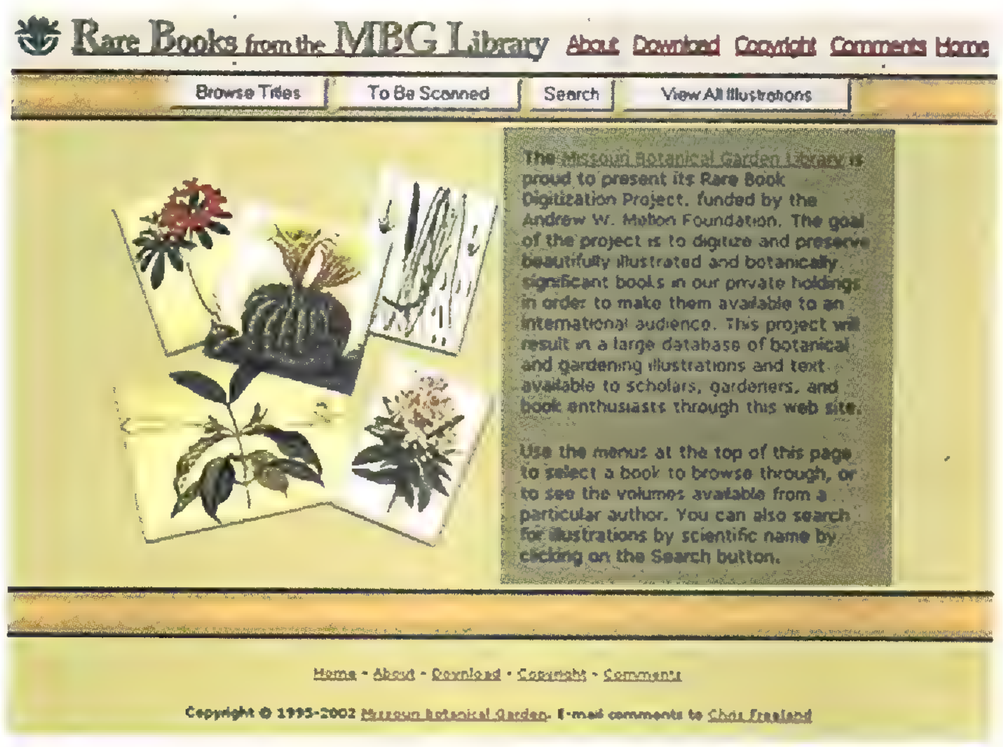
Leslie Miller calibrates the camera while Fred Keusenkothen prepares to scan an image by famed French botanical illustrator Pierre Redouté. The initial scan is seen above.

instantly. And the Rare Books website offers such high-quality images, that even artists who need to see the brush strokes in an image are quite impressed by the digital version.

The Rare Book website also helps to conserve the physical books. Because each page has been made available online, these books are no longer removed from the stacks of the Rare Book Library. Many of these books are several hundred years old and extremely rare (complete sets of some volumes have recently sold at auctions for millions of dollars), and their fragile papers and sensitive inks are prone to damage.

How to digitize a rare book

It starts witha a scan. Scanning is essentially electronic photography. But these books are rare, many of them hundreds of years old, and thus quite delicate. Photography requires lighting and scanning usually requires flat surfaces. The team surmounted these problems in a variety of ways. Some of the digitized volumes were previously scheduled for conservation and thus had been disbound. Little damage is done to these books because the pages lay flat on the scanning surface. For bound volumes, book cradles were handcrafted to specific dimensions to reduce possible damage to the bindings and the pages. Also, low-heat lights are used to minimize any damage that may occur to the light-sensitive inks.



The Rare Books website is easily navigated by a variety of criteria. The images are better than photo-quality and information from the database is attached to each scan.

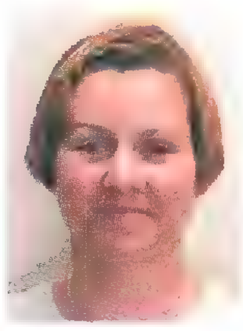
How to make it useful

While images are being made of each and every page, in order to be most useful to researchers on the Internet, the book information needs to be entered in a database. Almost every conceivable type of information that can be acquired about each volume as a whole, and even about each page in that volume, is entered into one large database. Bibliographic information is provided by the library catalog. Additional data, including page descriptions, all page text, translations to English (if required), links to other plant records, current scientific names, author biographies, and book descriptions, is also tracked.

Website work

In designing the Rare Book website, the group decided that each book should have its own uniquely designed webpages mimicking the look of the physical book. Different options enable even novice users to navigate the site easily. The "View Pages" option offers the user a set of thumbnails (small images with low detail), any of which can be clicked on for enlargements. The "Structure of Book" option presents the user with a list of all pages, from front cover to back cover, and notes whether the page can be viewed in detail or if it has even been scanned. The "List of Taxa" option presents a list of all illustrated plants of a specific variety in each volume. For the scientist, other information such as the common name and links to the Garden's TROPICOS database and to U.S.D.A. plant profiles, is invaluable. Once a page has been enlarged, the user can "page" through the book sequentially, giving the online illusion of paging through an actual book.

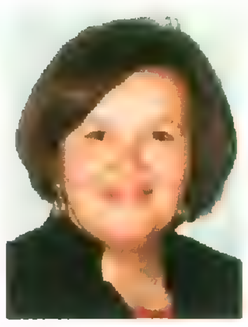
The Rare Book website is a valuable resource for a wide variety of people, including botanical scholars, researchers, gardeners, historians, artists, illustrators, and the average person just wanting to see some pretty images. Procedures and equipment, as well as the website, have all changed dramatically in the seven years since the inception of the rare book project. One thing has stayed the same: this project has allowed for the conservation, preservation, and presentation of these very rare and botanically important volumes.



by Beth Owen,
MBG Web Content
Developer

Peru

Garden Researchers on the Move at Machu Picchu



by Kathy Hurlbert, Center for Conservation and Sustainable Development

For over two decades MBG botanists have been exploring the Andean trails and Amazonian forests of Peru in search of new plant discoveries. Their dedication has greatly expanded our knowledge of these hot spots of biological diversity and cradles of human civilization.

Now, at the beginning of the 21st century, we and our partner institutions in Peru are initiating what may be one of the larger botanical explorations in its history. Our first objective is the Selva Central (Central Forest), where we will concentrate our efforts in three protected areas—an important refuge for a largely unaltered Peruvian wilderness. The second objective is the Urubamba-Vilcanota Valley, the Valley of the Incas—home to the historic sanctuary of Machu Picchu.

Leading the effort will be Assistant Curator Rodolfo Vásquez, who directs the Garden's Peru program. To administer the new initiative, Rodolfo is moving his base of operations from the northern province of Cajamarca to the town of Oxapampa in the central forest near the reserves. Rodolfo will direct the exploration and will develop collaborative plans with indigenous communities to protect their natural resources.

Further south in the rugged valley of the Urubamba River near Machu Picchu, the Garden and the 300-year-old University of Cusco will mount a series of expeditions to collect and study the plants that grow in the Valley of the Incas. This was a center for Inca civilization and for growing many varieties of potatoes and other useful plants. The ancient knowledge of the Incas and their use of plants has contributed greatly to modern plant breeds.

The sanctuary of Machu Picchu itself is threatened by human incursions. With other conservation organizations in Peru, the Garden will work to identify the highest priority areas for conservation and to foster stewardship from the local to the national levels. The long human history in the region provides a wealth of benefits and knowledge for people everywhere. Through our research and conservation efforts, we hope to help ensure the future of an inheritance that belongs to the world.

PHOTO BY OLGA MARTHA MONTIEL

Volunteer Service Recognition

On March 19, the Garden hosted a volunteer service recognition luncheon for the tens of volunteers with the longest standing commitments. The volunteers recognized—with their 10, 20, and 30 year tenures—contributed a cumulative 650 years of service to the Garden. Whether through the Herb Society, the Tributes program, through volunteer instruction or Master Gardener training, these men and women have made substantial contributions, and the Garden is grateful for their dedication.

Last year, volunteers at the Garden numbered 1,219. They contributed 85,541 hours of service, or the equivalent labor of 41 additional full-time employees. The biggest numbers of volunteers find work in the Horticulture Division, followed by Education, but there are all kinds of valuable ways to assist the Garden. In the library, specially trained volunteers are working to conserve the book collection. Three retired doctors are working to translate the German Engelmann papers and several rare French books into English.

For people with a retail background, volunteer buyer positions fill up quickly in the Garden Gate Shop. A volunteer's previous work skills often inform his or her contribution to the Garden. One current volunteer is a top-notch orchid expert. She's working to help identify and catalog the hundreds of orchid photos in the plant records database. Volunteers staff the special events, coordinate the bench and tree memorials, even help out with public relations and publications. Interested individuals should call Jeanne McGilligan at (314) 577-5187.

PHOTO BY JIM BURKS

Thirty-year volunteers Barbara O'Brien and Mary Jane Kirtz stand beside Dr. Raven.

Twenty-year volunteers (from left): Dorothy Hitt, Joan Murphy, Anne Heisler, Arden Fisher, Warren Tabachik, Laura Riganti, [Dr. Raven], Helen Hilliker, and Marian Herr, standing beside her twin Ethel Herr, who received a 20-year award last year.*

** deceased*

Ten-year volunteers (from left): Barbara Mutz, Susan DeFosset, Jim Honeywell, Cherie Moody, John Kolar, Lucinda Stein, Barbara Perry Lawton, Stewart Strassner, [Dr. Raven], Norma Holler, Ginny Mueller, Pricilla Rodriquez, Marie Merlotti, Al Bedford, Madeline Pisani, Agnes Strassner, Carl Wienold, Alma Willis, Therese Shurig, Dorothy Roedder, Wilma Wienold, and Ruth Dressel.

PHOTO BY JACK JENNINGS

Welcome Garden Docents

The MBG Guides have voted to change their name to Garden Docents. The term "docent" more aptly suggests the level of training this group of dedicated volunteers undergo. They are trained to lead a variety of tours including the Japanese Garden, Chinese Garden, Climatron, Temperate House, Sculpture, History of the Garden, Pollination, and a general overview of the Garden, as well as a series of Discovery tours. Over the last year, Garden Docents led a grand total of 6,101 walking tours.

tributes

JAN.–FEB. 2002

For information on making a gift to the Tribute Fund, please call the Development Office at (314) 577-5120.

in honor of

Patricia Arnold
Ms. Marjorie M. Ivey
Maggie K. Bayer
Ms. Marjorie M. Ivey
Robert and Susan Bronstein
Ms. Beverly Blitz
Joan and Jim Busse
Mr. and Mrs. Jerome E. Glick
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Gail, Rob, Leah and Joshua Staffin
Susan, Michael, David, Sam, and Jake Thonis
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The Gatesworth Residents Association
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Nancy and J. Kirby Jenkins
Jane C. Walker
John L. Walker
Molly Walker and Richard Goldberg
Mrs. Elizabeth Wendel
Mr. Donald Wendel
Ralph and Norma Westerheide
Mitchell and Joyce Podolsky
Peg and Blanton Whitmire
Ms. Cathy Whitmire

in memory of

Angela M. Addeo
Mrs. Peggy Baker
Alaine M. Arndt
Mr. Thomas E. Kahn
Malvern Schweig
Barbara Ault
Mr. Richard Blath
William King "Barney" Barnett
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Archie and Carol Black
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Walter W. Schwider
Mrs. Eva Schwider and Megan Klippel
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Laura J. Torbert
Sister of Barbara Scott
Hank and Elinor Miller

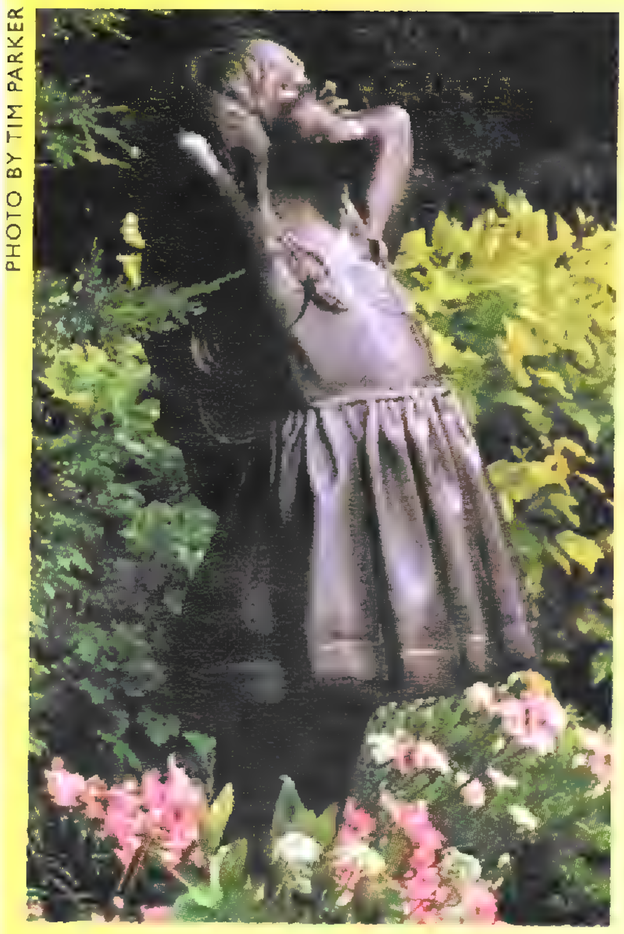

PHOTO BY TIM PARKER

Create a Legacy

By leaving a bequest to the Garden, you create a legacy that will benefit others for generations to come. If you have already included the Garden in your estate plans, we hope that you will share this information with us. We would like to express our gratitude and welcome you into the Heritage Society. Of course, your wishes for anonymity are respected.

Please call Judi Schraer, the planned giving officer, at (314) 577-9455 for further information and a complimentary brochure.

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Mr. and Mrs. James A. Breckenridge
Ms. Gail K. Fischmann
Mr. and Mrs. Allyn F. Glaub
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That perfect gift
for that perfect Mom...

PHOTO BY MBG PUBLICATIONS DEPT

The Garden Gate Shop carries exclusive and unusual gifts for that special Mom. From the Caldrea line of lavender home and bath products to beautiful and informative books to oversized outdoor incense, you'll find presents to enrich her life and enrapture her senses.

See our pull-out flyer in this issue of the Bulletin.

The Garden Gate Shop has great gifts for grads. From lucky bamboo plants to lovely picture frames to interesting candles and exotic imported statues and vases. Remember the graduate in your life with a keepsake from the Garden.

Garden Gate Shop

Missouri Botanical Garden
4344 Shaw Boulevard
(314) 577-5137
Open daily 9 a.m. to 5:30 p.m.
All proceeds from the Garden Gate Shop benefit the Missouri Botanical Garden.

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members' entry court

Bricks donated to the Members' Entry Court at the William T. Kemper Center for Home Gardening between January 1 and February 28, 2002:

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Doris H. and David B. Lichtenstein, Jr.
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Mr. and Mrs. John D. Lange, Jr.
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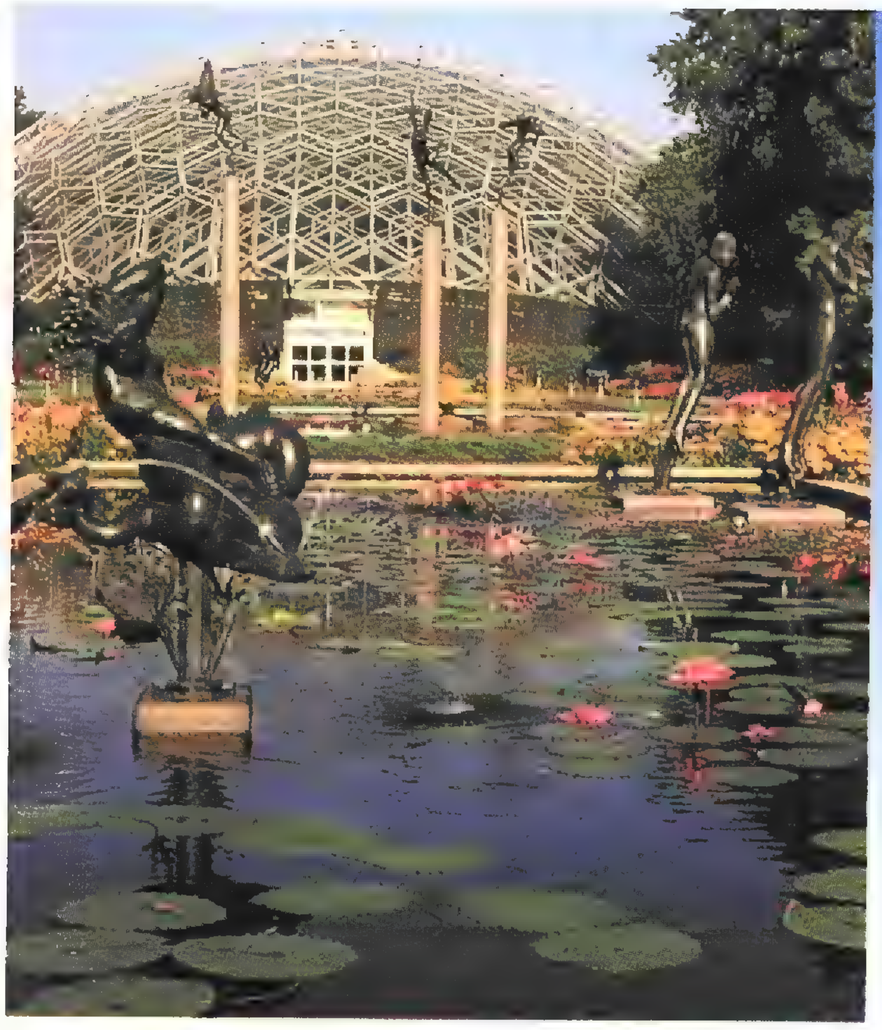

Mother's Day

Enjoy springtime in the Garden at the all-new Mother's Day Brunch in historic Spink Pavilion.

Sunday, May 12
Reservations only: (314) 577-9530
Adults $24.95; children $12.95
(5 years and under are free)

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Whitaker Music Festival
Eight weeks of Wednesdays
June 5 to July 24
(plus one bonus Tuesday, June 25)
7:30 to 9:30 p.m.
Cohen Amphitheater
See page 5 for more information.

Whitaker Music Festival

Warm Nights, Cool Sounds: Whitaker Music Festival

Now in its eighth year, this special summer series is bigger and better than ever. Newly rechristened in 2002 to reflect the expanding variety of the festival's participants, the Whitaker Music Festival (formerly the Whitaker Jazz Festival) also features a newly extended lineup of eight free Wednesday night concerts, plus one bonus Tuesday, for a total of nine free events, , wrapping up on Henry Shaw's Birthday (July 24).

Jeremy Davenport, past featured performer
PHOTO BY TIM PARKER

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Missouri Botanical Garden

Bulletin

July/August 2002 Vol. LXXXX, No. 4

This edition...

Happy Birthday Henry!

Great Garden Adventures

Warm nights, cool strolls

Whitaker Music Festival

Cool water gardens

BIG BUGS!

Japanese Festival

Botany at the cellular level

And more...

Marvelous Mondays

Director's comment

Director's Comment

The key role our Members play in the life and sustenance of the Garden is apparent in every aspect of our accomplishments, from the splendid displays of our Horticulture Department to the capacity of our Education Department to reach thousands of children throughout the Region, to the restoration of natural communities at the Shaw Nature Reserve, to the global influence of our botanists.

Thus, it was with a great deal of pleasure that we dedicated the Garden's new Membership Services Desk in Grigg Hall at the main entrance in the Ridgway Visitor Center. All of us have waited years for this moment as a way of thanking all of you for the countless hours you devote to the Garden.

Many of you have joined the folks of all ages and backgrounds that have attended the extended season of the Whitaker Music Festival at the Cohen Amphitheatre that began June 5 and ends on Henry Shaw's birthday, July 24 with a concert by singer-songwriter Connie Fairchild. And every Wednesday in July until then you're welcome to bring your family and your lawnchairs, a picnic basket or to purchase the same from the Café for a lovely evening under the stars.

We'll also celebrate Henry Shaw's 202nd birthday by opening the Garden free to everyone, including tours of Tower Grove House, Henry Shaw's country home, a true picture of Victorian-era country life in St. Louis with authentic 19th century furnishing and collectibles, some of which belonged to the founder. During the day, old-fashioned entertainment, including hurdy-gurdy music and a stilt walker, will be featured with refreshments that include complimentary birthday cake from Schnuck's Supermarkets.

We expect the Henry Shaw Ozark Corridor to be dedicated on July 24, a 22-mile section of I-44 between Shaw Nature Reserve and the Powder Valley Conservation Nature Center, a symbolic linkage of our working relationship with the Missouri Department of Conservation and the Nature Reserve's dedication to restoration of native Missouri plants, trees, and wildlife. The corridor also includes 40 miles of the Meramec River Greenway and encompasses seven communities with a combined population of more than 90,000 persons.

If you drive up Shaw Boulevard toward the Kingshighway you cannot miss the renovation project converting the former R&F Spaghetti factory into the Commerce Bank Education Center. Already the west end of the property has been demolished to be replaced by landscaped parking to serve the building and work should begin shortly on retrofitting the building for an expanded Education Department, the new headquarters of the Botanical Society of America which is moving here from Ohio, and Sequoia Sciences, Inc., expanding in St. Louis from its headquarters in San Diego. To the east of the building, construction on the new multimodal transit center should begin shortly, providing a hub for Bi-State buses serving the area and off-site parking for Garden evening and weekend events.

Lastly, David Rogers' BIG BUGS has opened in a very big way at the Sophia M. Sachs Butterfly House where these gargantuan sculptures are sited along with one at the Garden. Don't miss them and don't miss a visit to the Butterfly House in Faust Park. Seeing the butterflies in flight is to experience beauty in the air.

Peter H. Raven

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St. Louis, MO 63166-0299
www.mobot.org

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JUL 0 3 2002
GARDEN LIBRARY

Editor's Note

Sometimes when you know a place like the Garden well, as most of our members do, you develop a set of comfortable and familiar patterns—my walk, my bench, my fountain, my route. When I walk from my office to the Ridgway Visitor Center, I always take the path past Tower Grove House, through Shaw's sacred oak grove, and say hello to Henry. There are at least three other routes to my destination, but I always settle on *my* route. We design our own itineraries for ease and convenience, and it becomes like an old friend. But sometimes it's good to make new friends too, and that's why we've been developing the Great Garden Adventure program.

In a place as big and beautiful and diverse as the Garden, there are zillions of ways to see the sights and be in nature, and probably more than a few you haven't tried before. The Great Garden Adventures are a series of maps providing self-guided tours. There's the Fitness Foray, outlining paths for fitness walking with mileage indications and health tips. The Stroller Strut shows paths suitable for stollers and offers experiences to share with your toddler. For walking children, there's the Kids' Quest with educational interactions. Plans for additional thematic maps on Garden history, native trees, even wildlife are in the works.

This summer, bring your kids and grandkids or your neighbor's kids, and try out a new path. You never know what you'll notice from a different angle or direction, your new Garden walk might soon become another old friend.

Elizabeth McNulty, editor
elizabeth.mcnulty@mobot.org

summer fun

One thing's certain about St. Louis in July and August: it's hot and humid. And yet it's precisely this combination that makes the water lilies and calla lilies and dahlias and all the other wonderful full-summer flowers thrive and stand out in such fresh relief. The Garden is lush in these months, and if you are feeling a bit wilted from the heat, strategically placed fountains and shade trees offer a respite. You can have all your home gardening questions answered in air-conditioned comfort at the Kemper Center, take in the art exhibits in the Ridgway Visitor Center, grab a bite in the Café and a gift in the Garden Gate Shop.

And one of the loveliest ways to enjoy the summer Garden is in the cool of evening.

Marvelous Monday Nights offer the Garden free to the public from 5 to 8 p.m. View sunset over the Climatron, take a romantic walk in the rose gardens or a twilight stroll through Seiwa-en. There's al fresco dining at the Café and a happy hour featured Monday nights in July. Marvelous Monday Nights are, well... marvelous and not to be missed. They end August 26.

Evening entertainment continues at the Garden with the bigger-than-ever Wednesday-night **Whitaker Music Festival** (see the schedule at right). Now in its eighth year, this special summer series still has five more free concerts in July, wrapping up on July 24, a very special day in the Garden.

Japanese Festival
August 31–September 2
10 a.m. to 10 p.m., Sat. and Sun.
10 a.m. to 5 p.m., Mon.
Admission: $10 adults,
$7 seniors, $3 members.
Free to children 12 and under.
Festival information
(24-hour info line):
(314) 577-9400 or 1-800-642-8842

PHOTO BY TIM PARKER

Japanese Festival

Autumn Gingko

It begins with a ceremonial keg-breaking. The directors—this year including the Ambassador of Japan—gather round the sake barrel and beat the wooden lid with mallets until one smashes through, splashing everyone. Once the sake flows, the festival begins.

This year's Japanese Festival takes as its theme the Autumn Gingko after this beautiful and ancient tree with its fan-shaped leaves.

Back by popular demand, the Candyman will spin taffy works of art for children lucky enough to meet him. Children can also help pull the Dashi in the wagon parade, spin Edo tops, and participate in a variety of other activities.

And new for 2002, popular Japanese baseball commentator Dr. Masaru Ikei, author of a recent article in The New York Times, *will be on hand Sunday to discuss the Japanese fascination with the national pastime.*

That's because Wednesday, July 24 is **Henry Shaw's Birthday**. In honor of our founder and great St. Louis civic benefactor, the Garden opens the grounds and Tower Grove House free to the public. There's free birthday cake and lemonade, hurdy-gurdy music, a stilt walker, silhouette artist, and a variety of children's activities. Henry Shaw himself presides over the festivities.

The other big, BIG news for kids this summer is the invasion of **David Rogers' BIG BUGS**. Sponsored by the Dana Brown Foundation and Coca-Cola, these gargantuan sculptures of insects of all kinds will delight kids of all ages. The Garden hosts a 25-foot long ant; other bugs are landing at the Butterfly House in Faust Park. See pages 10–11 for more details.

Sneaking in the tail end of August, the 26th annual **Japanese Festival** promises to be the biggest and best ever. Details listed below.

So bring your water bottle, brave the heat, and enjoy the fun in the sun and in the shade this summer at Mr. Shaw's Garden.

JAPANESE FESTIVAL PHOTOS BY TIM PARKER

Goyukkuri tanoshinde kudasai!
(Please join us and have fun!)

bon odori—*summer festival dancing*

bonsai—*the art of growing miniature trees and shrubs*

ikebana—*the art of flower arranging that emphasizes form and balance*

kimono—*fashion, ancient & modern*

tea ceremony—*this year on both Tea House Island and in a feature program in the auditorium*

traditional music *including the koto and the ever-popular San Jose taiko drums*

raku—*traditional Japanese crackleware pottery*

shibori—*the ancient art of making patterned cloth with indigo dye*

Japanese marketplace, food, and more

The 26th Annual Japanese Festival is sponsored by the Missouri Botanical Garden and the Japanese Activities Committee, a coalition of organizations that includes the Japanese American Citizens' League, Japan America Society of St. Louis, Japanese Chamber of Commerce & Industry of St. Louis, St. Louis Japanese Language School for Children, St. Louis-Suwa Sister City Committee, St. Louis Japan Society, Seinen Committee, The Women's Association of the Japan America Society, and the Office of the Consulate General of Japan in Kansas City.

July

Whitaker Music festival

at the Missouri Botanical Garden
all concerts are free and begin at 7:30 p.m.

july 3
Soulard Blues Band
The one and only!

july 10
Fontella Bass
Tribute to one of St. Louis' finest

july 16 *Tuesday*
Reggie and Mardra Thomas
Standards and originals
Rescheduled from the June 12 cancellation.

july 17
The Flying Mules
St. Louis' best bluegrass band

july 24
Connie Fairchild
Music by the award-winning songwriter

Shake out your blanket, pack a picnic supper, and enjoy great music under the stars!

Purchase a Garden membership at the festival and receive a festival t-shirt!

Cash bar, sandwiches, and refreshments by Catering St. Louis.

Information Hotline: (314) 577-9400 or visit our website at www.mobot.org

Listen to WSIE 88.7 FM for all concert information

Underwritten by the ***Whitaker Foundation***

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THE JAZZ STATION

news

PHOTOS BY T M PARKER

Chapungu

Dangling from the lift against a clear blue sky in May, the two-ton opal stone took the concerted efforts of four men to maneuver into place. A favorite sculpture of the Garden's nationally renowned Chapungu exhibit has returned to roost, at twice its original size.

On Sunday, June 2, the Garden dedicated *Protecting the Eggs* 2002. A statement that "We humans should protect and nurture our environment in the same way as a bird protects her eggs," according to Zimbabwean sculptor Damian Manuhwa. *Protecting the Eggs* holds special meaning for the children of Marjory Kassabaum Graff, who donated it in her memory.

Protecting the Eggs joins the Garden's other permanent Chapungu statue, *Sole Provider*, just across the path. That likeness of a single mother with two children was donated to the Garden by the Chapungu Sculpture Park and the sculptors of Zimbabwe in memory of the victims of September 11.

Pictured above, from left: Karen Ivory, George Graff, Doug Kassabaum, Ann Corbett, and Tory Kassabaum.

Shaw's Garden East

On the 198th anniversary of the Lewis and Clark expedition, Tuesday, May 14, Lewis and Clark Community College in Godfrey, Illinois, unveiled the first stage of a Shaw's Garden East initiative. The garden on the campus' fountain circle features a statue of Sacagawea and landscaping designed by longtime Garden design firm Marshall, Tyler, and Rausch.

PHOTOS BY LYNN KERKEMEYER

Shoshone model Randy'L Teton, nationally renowned sculptor Glenna Goodacre, and Lewis and Clark President Dale Chapman stand beside the new statue.

"It is appropriate that the occasion of the Lewis and Clark anniversary also marks the Garden's first venture into something tangible on the east side of the river," remarked Ralph Korte, chairman of the Korte Company and emeritus trustee of the Garden. Mr. Korte leads the Garden's East Side Advisory Committee. which includes emeritus trustees Hal Wuertenbaecher and Lu Morse III.

Discussions for additional Shaw's Garden East initiatives are underway with other Illinois community and educational institutions. MBG East Side Marketing Officer (and lifelong East Side resident) Lynn Kerkemeyer works to raise awareness of the Garden's wonderful programs and services in the Illinois communities of the St. Louis metropolitan area.

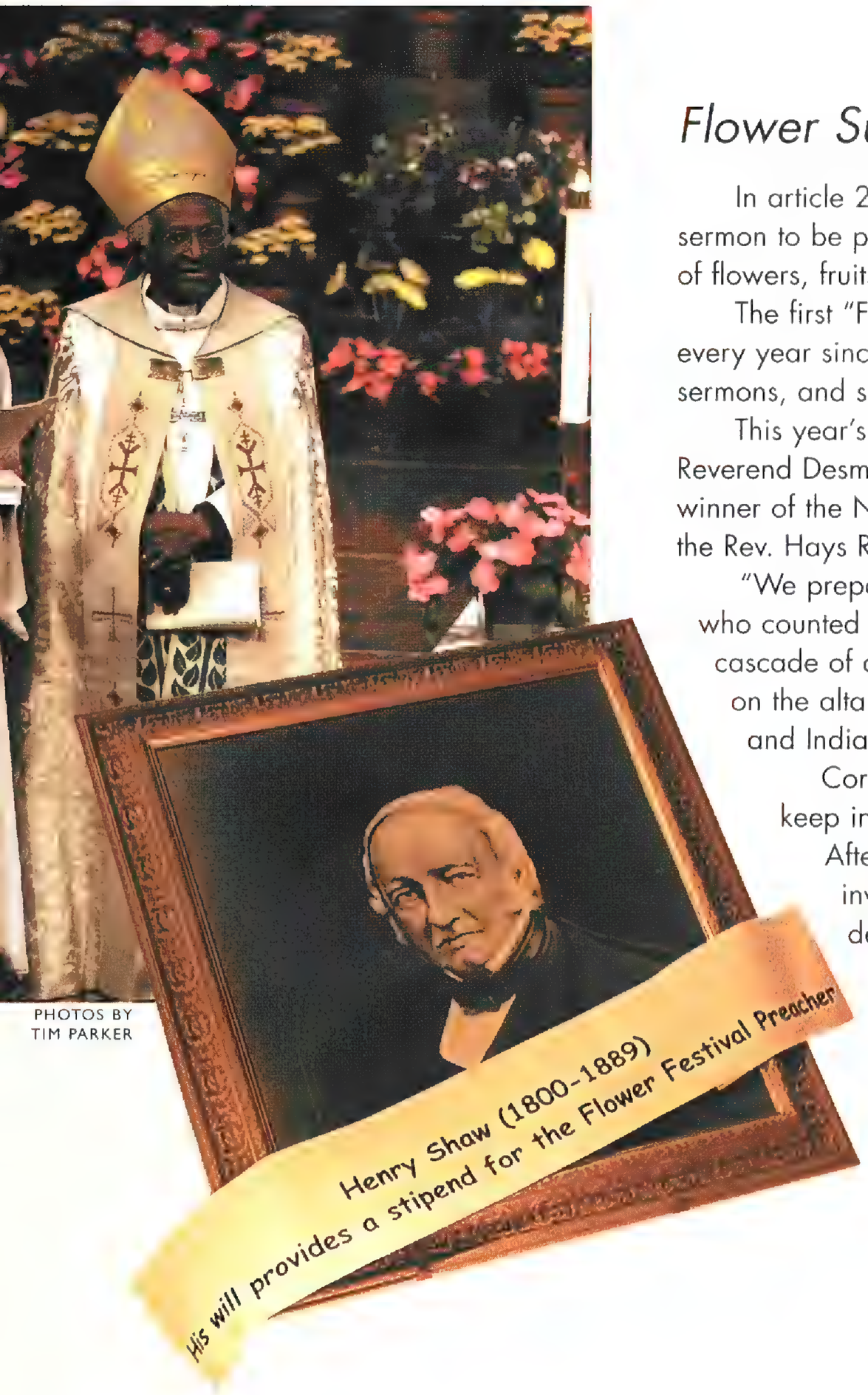
"Illinois community leaders and residents have been very receptive to the Garden's message," says Kerkemeyer, "Their enthusiasm is overwhelming and will only increase as more and more of our Illinois neighbors visit the Garden and experience the magic that makes this special place one of the best botanical gardens in the entire world."

Floriade

Once every 10 years, growers, gardeners, and visitors from around the world converge on the Netherlands for the world's largest horticultural exhibition. Now in its fifth incarnation, Floriade 2002 will run until October 20 and is expected to attract three million people.

The Garden organizes unique trips to cultural sites around the world for members. A group of 30 members toured the Floriade this May, and while in the Netherlands, visited a variety of private gardens and castles, arranged through the Garden's connections. While members walked the 150+ acres of spectacular floral display, the Garden's own Brian LeDoux, mastermind behind the holiday and flower shows, was looking for ideas. He found them: "There were some great Indonesian thatched huts that might show up in a future orchid show at the Garden."

Captions, from left: Members' tour group. One of the many unique outdoor floral displays. Greenhouse Supervisor Cathy Pauley and Exhibit Designer Brian LeDoux.



PHOTOS BY TIM PARKER

Flower Sunday

In article 26 of clause 4 of his will, Henry Shaw lays out provisions for an annual sermon to be preached "on the wisdom and goodness of God as shown in the growth of flowers, fruits, and other products of the vegetable kingdom."

The first "Flower Sunday" was held in 1890, the year after Shaw's death, and for every year since this annual event at Christ Church Cathedral has featured spectacular sermons, and since 1938, spectacular floral displays by Garden horticulturists as well.

This year's Flower Festival on April 27 and 28 was no exception. The Most Reverend Desmond Tutu, Anglican archbishop emeritus of Cape Town, South Africa, and winner of the Nobel Peace Prize, was the featured speaker, at the invitation of his friend the Rev. Hays Rockwell, who retired in June. And the cathedral overflowed with flowers.

"We prepare for this event all year," remarks Steve Wolf, Garden horticulturalist who counted the 2002 festival as his 32nd. Displays this year included a 6-foot cascade of cut orchids, backed by palm fronds and enormous philodendron leaves on the altar, as well as installations of gerbera daisies, New Guinea impatiens, and Indian summer corn plants.

Corn? "After Shaw's reference to fruits and vegetables," explains Wolf, "To keep in the flavor of Shaw's will, some years we've done tomato plants too."

After 112 years, the spirit and the letter of Shaw's legacy of community involvement lives on in this special event, fostered by the hard work and dedication of the Garden's horticultural staff.

Caption: Desmond Tutu speaks at Flower Sunday, April 28. Henry Shaw provided for this event in his 1889 will.

Commerce Bank Education Center

You may have noticed the hardhat area signs that went up recently on the fence at the corner of Vandeventer and Kingshighway. In mid-May, work got underway on the Garden's new state-of-the-art Commerce Bank Education Center.

Made possible by the generosity of the William T. Kemper Foundation and Commerce Bank, the Commerce Bank Education Center is slated for completion in summer 2003.

A crew is working full-time on the project, which includes the partial demolition of the R&F Spaghetti factory warehouse and the gutting and renovation of the rest of the structure to create the 58,000 square-foot center.

The new center will house the Education Division under the direction of Dr. Luther Williams. "The center is integral to the execution of our restructured education program," notes Dr. Williams. "It is designed to provide a conjunction of four areas—curriculum, teacher training, learning technology, and teacher resources. This state-of-the-art structure will allow us to organize

PHOTO BY ANDY COLLIGAN

these four functions as a continuum and reap substantial benefits."

In June, the Botanical Society of America announced they will relocate their headquarters to the Center, providing exciting opportunities for interaction and collaborations with the botanical community. Additionally, the center will house Sequoia Sciences, Inc., an emerging leader in drug discovery, and a recent relocation from San Diego to St. Louis's emerging "biobelt."

PHOTO BY JACK JE

Backyard Water Gardening

by Jon Sweeney, MBG Aquaculturist, pictured above

"Get in while it's hot!" Cool off from the sweltering summer heat while you work in your garden. Huh??? It's true. Water gardening! It is one of the fastest growing segments of the horticulture industry. As the summer temperatures soar and the humidity goes through the roof, your aquatic plants will soak it all up and bloom, bloom, bloom.

Water gardening's popularity has spread like cattails. Water features in the landscape bring a coolness and tranquility that is truly calming. Sometimes advertised as "no maintenance," as gardeners know, no great garden is every really maintenance-free, but the maintenance of a water garden can be simply refreshing. What gardener wouldn't like wading around in the water during the hot summer doing a little pinching, pruning, and fertilizing? And so the pond boom continues. Gardeners with whiskey barrel tub gardens are building small ponds, gardeners with small ponds are building bigger ones, and gardeners with big ponds are adding a waterfall and stream.

A mixture of hardy and tropical aquatic plant material in and around the pond will create four seasons of color and texture. The number one plant for the pond has to be the tropical waterlily. Nymphaea hybrids offer outstanding floating foliage and flower colors across the color spectrum. Tropical waterlilies bloom from June to November. They will adapt to the small spaces of tub gardens or spread to 10 feet wide in open ponds. Ideally, in a pond, tropical waterlilies should be grown with 12 to 18 inches of water over the crown of the plant, but have been found growing in the wild in as deep as 10 feet of water.

The Garden rose to prominence as a breeding center for tropical nymphaeas largely through the efforts of George H. Pring, a leading horticulturist and Superintendent of the Garden, whose career at the Garden extended from 1906 to 1963. Making use of six African species and one old cultivated hybrid, Pring carried out a complex series of crosses that yielded several hybrid cultivars that have remained popular for 75 years. Along with new hybrids being introduced every year, tropical waterlilies are the staple of the Garden's aquatic

displays, which feature over 60 tropical waterlily hybrids.

Tropical waterlilies open and close with the light and can take up to an hour to open fully. They are separated into two groups, day bloomers and night bloomers. Day bloomers open mid-morning and close late afternoon/early evening. Nightbloomers open early evening and close mid-morning. Mid-morning is thus the best time to enjoy tropical waterlilies because you will catch both the day- and night-blooming flowers while open.

Tropical waterlily flowers are some of the most exquisite and romantic flowers in the world. The large and showy flowers, each reaching 6 to 10 inches, are held high above the water surface and designed to attract insects for pollination. The day-bloomers are sweetly fragrant and available in every color of the rainbow including fabulous shades of blue, violet, and purple. The colors of night bloomers are white, pink, and red—the only colors that can be seen by night-flying insects.

Tropical waterlilies should not be planted outside until the water temperatures have reached 70–72 degrees, with an outlook for continued warm weather. In St. Louis, we usually reach that target around the first week of June. This is the most important rule in growing waterlilies, make sure the water is warm enough. Rule two, transplant your waterlily into average garden soil. Do not use store-bought bag soil since it commonly contains amendments like compost, peat moss, and vermiculite, which will float in the water. Rich, amended soil can also cause the plant to rot. Rule three, do not bury the crown of the plant. It is critical to plant the crown of the plant high. Allow the top of the waterlilies' rootball to be 1 to 2 inches above the soil surface, at planting, to ensure that the crown is not too low.

Fertilize the waterlilies at planting time and every two weeks after by pushing fertilizer tablets into the soil around the plant. Pinch the flower buds off the plant at the crown for the first two to three weeks while the plants' roots establish. A weekly pruning schedule will greatly improve the appearance of your display. This is the cool part. When it is too hot to mow the yard, too hot to pull weeds, and too hot to deadhead perennials and prune shrubs, simply jump into your pond and ahhhh... do some pruning. Just follow the yellowing or tattered leaf's stem back to the plant's crown and cut it off and remove it from the pond. Also, find any old flower buds that have closed and sunk into the water, and remove them at the crown too.

Now that you have refreshed yourself by cleaning your water garden, grab a cold drink, climb into the patio lounge chair under the umbrella, and watch your waterlily flowers open and close all day.

PHOTO BY JEAN PONZI

PHOTO BY ???

Jewel in the Corner: The EarthWays Home Pond

By Jean Ponzi
Gateway Center Program Manager

The tinkle of water over rock lures your attention to a cool pool in dappled sunshine. Fish dart into shade below the leaves of rose and yellow water lilies, as a dragonfly hovers reflected in the mirror surface. Knobby water hyacinth clusters revolve like languid satellites around the stalks of miniature cattails, and the breeze rustles corkscrew rushes against the curved white limestone bank.

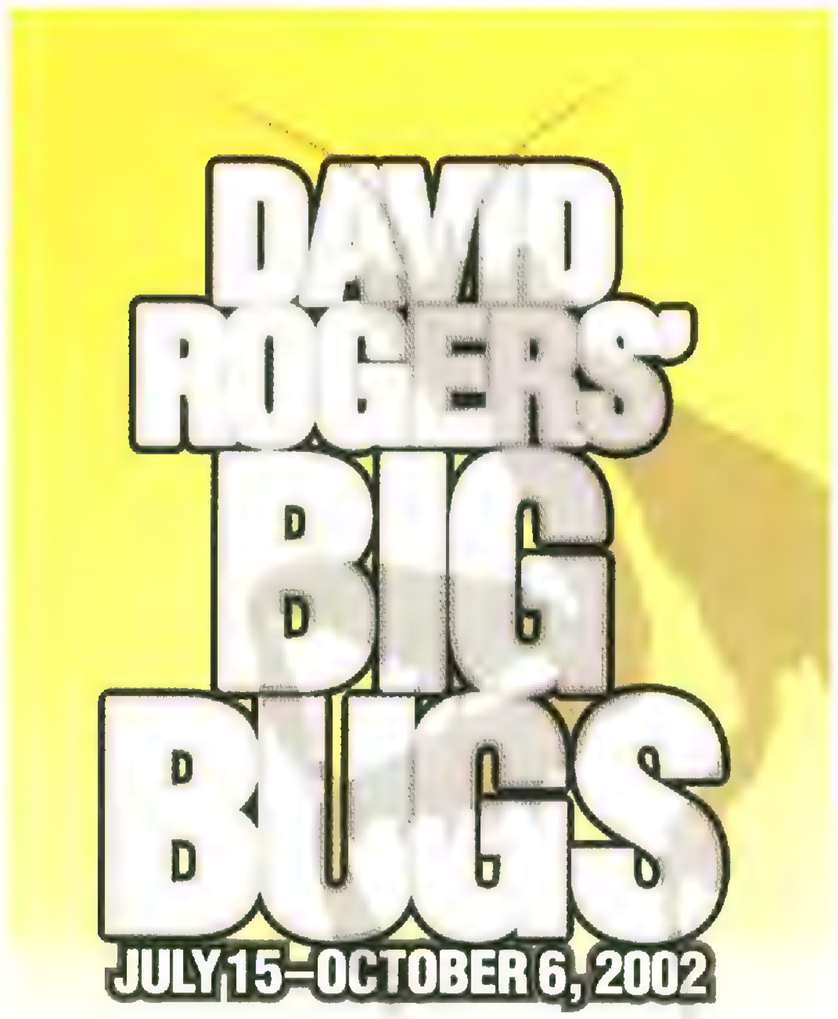
Although it sounds remote and rural, this delightful environment is the backyard corner of the EarthWays Home, mid-town headquarters of the Garden's Gateway Center for Resource Efficiency. Recent renovation of the EarthWays Home pond created an opportunity for visitors, volunteers, and staff to learn about low-maintenance, environmentally sensitive water gardening.

Master Gardeners worked with Garden staff to clean out accumulated organic debris and restock the pond with water plants donated by Gilberg Perennial Farms. The project implemented simple principles of natural balance in aquatic environments, through which populations of plants, fish, insects, and microorganisms will thrive sustainably, year-round, without chemical or mechanical additions. Drought-tolerant landscaping around the pond features colorful native perennials, purchased with a grant from "Missouri Grow Native!"

The EarthWays Home pond demonstrates the interactions within a natural system that maintain ecological health, beauty, and balance.

The third Friday of every month is Open House Day at the EarthWays Home. Call (314) 577-0220 or email gateway center@mobot.org.

Garden at large



Free with regular admission

Big Bugs Invade the Sophia M. Sachs Butterfly House

These are arthropods you can't ignore! A 25-foot long ant, a dragonfly weighing 150 pounds with a 17-foot wingspan, and other gigantic creatures will swarm the Butterfly House and Missouri Botanical Garden from July 15 to October 6 in a very special exhibit sponsored by the Dana Brown Foundation and Coca-Cola.

Butterfly House Director Joe Norton is delighted with the pending invasion. "This is the largest special exhibit we've brought to St. Louis, and we expect it will be one of the most exciting."

In addition to the enormous 25-foot ant installed on the lawn at the Garden, the exhibit at the Butterfly House will include giant sculptures of a praying mantis, a grasshopper, a ladybug, a dragon- and damselfly, an assassin bug, and a spider.

Artist David H. G. Rogers uses natural found materials to create bugs with remarkable individuality and detail. Rogers is enthusiastic about the St. Louis exhibition. "People take the environment for granted," he says. "Insects are perceived as pests when they are really 'hidden gardeners.' Insects are an important part of our complex environment. Bringing bugs to a large scale blows people away. They can't take them for granted anymore."

Butterfly House

PHOTOS BY DAVID ROGERS

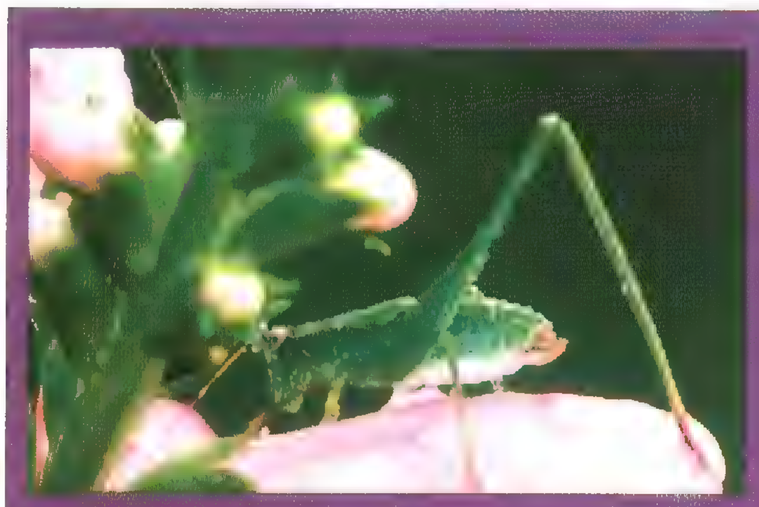


PHOTO BY JACK JENNINGS

Shaw Nature Reserve

Established by the Missouri Botanical Garden in 1925, the Shaw Nature Reserve is in Gray Summit, MO, 35 miles west of St. Louis on I-44 (Gray Summit exit 253). In addition to the Whitmire Wildflower Garden, the 2,400-acre reserve is also home to the restored Bascom House (1879) and fourteen miles of hiking trails. Grounds are open daily 7 a.m. to one-half hour past sunset. For information, call (636) 451-3512.

Nature Photography Contest

Amateur nature photographers wanted! Enjoy the scenic beauty of the Shaw Nature Reserve, practice your hobby, and win prizes. Compete in four nature-related categories: Flora, Wildlife, Miniature World of Nature, and Shaw Nature Reserve Vista. Three prizes will be awarded in each field, and only one prize per photographer. All photographs must be taken at the Shaw Nature Reserve between May 15 and August 15. Prizes include gift certificates for camera store, restaurants, books, and other items. Complete contest rules are available at the Shaw Nature Reserve Visitor Center.

Edgar Denison, Artist

Edgar Denison is perhaps best known for writing *Missouri Wildflowers*, a field guide to Missouri native plants first published in 1962, and a perennial best-seller for the Conservation Department ever since.

What is less well known, is that during the winter months, when not much was happening in the garden, Edgar painted watercolors. On display in the Bascom House at the Shaw Nature Reserve from July 2 through September 1 (Tuesday through Sunday), these 34 paintings by Denison reflect his passion for Missouri wildflowers—from delicate little Bird's Foot Violet to Pokeweed towering 10 feet tall.

KIDS CORNER

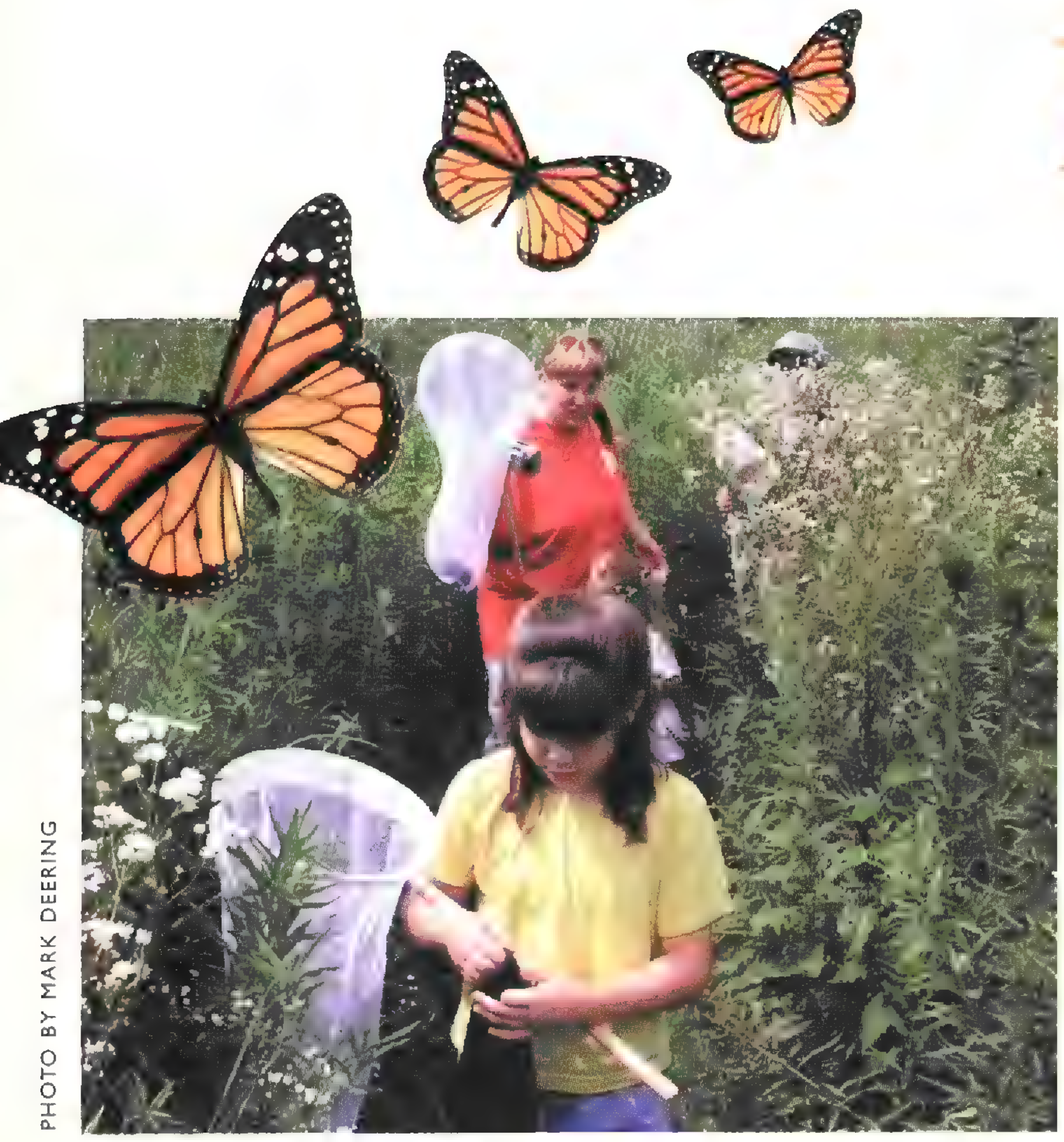


PHOTO BY MARK DEERING

Big Bugs? Meet Junior Bugs!

The Junior Entomologist Society of St. Louis is looking for young scientists who have a keen interest in insects. Members meet monthly to study different invertebrates, work with local experts, and travel to local attractions. Join us and learn more about the empires below your feet. Members also receive a quarterly newsletter, participate in a pen pal program with Washington Park Zoo Bug Club, and receive free admission for a year to the Butterfly House. For more information contact the Butterfly House at (636) 530-0076 ext. 10, e-mail us at entomology@butterflyhouse.org or apply online at www.butterflyhouse.org.

Caption: Nikki, Jesse, and Romy Napolitano catching butterflies at the Litzsinger Road Ecology Center.

JULY IS... KIDS IN BLOOM MONTH

Kids will love participating in these garden-related activities led by Kemper Center staff and volunteers. Join us for fun-filled, hands-on activities and make something to take home. Drop in any time between the hours of 10 a.m. to 2 p.m. Activities are free with regular Garden admission or membership.

July 6 *Butterfly Bonanza*
Create your own butterfly magnet and visit with our "Butterfly Lady" who will bring butterflies to watch and chrysalises to observe as new butterflies emerge.

July 13 *Nature's Paintbrushes*
Paint your own masterpiece using a variety of plant materials, such as grasses, flowers, twigs, and pine needles as brushes.

July 20 *Bee There or Bee Square*
Join local beekeepers and learn how honey is made. Sample honey sticks while you enjoy other bee surprises and activities.

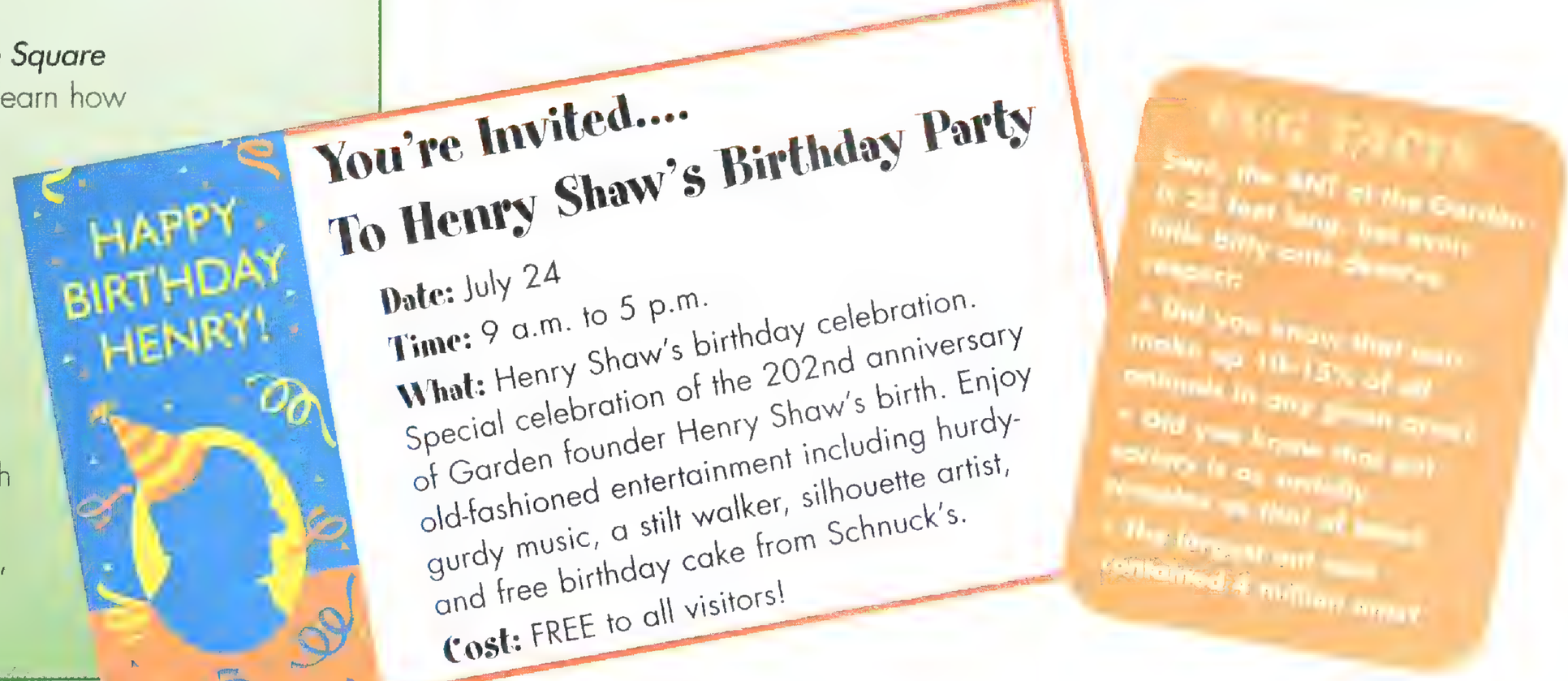
July 27 *Nature Printing*
Leaves, ferns, carrot tops, weeds—you name it! Inks and rollers will be used with all of these to create a picture, suitable for framing, to hang on your wall.

Big Bugs Family Days at the Garden: Saturdays July 20 and August 17

In honor of BIG BUGS, the Garden is hosting two family days with special bug-related fun. All activities (with the exception of the Café meal) are included with regular Garden admission or membership. Kids age 12 and under are always admitted free!

Activities will include:

- Viewing the gigantic 25-foot ant on the Climatron lawn
- Garden StoryTime in the Garden Gate Shop at 11 a.m. Butterfly House volunteers will read stories with "buggy" themes.
- Beekeepers Tim and Jody Hendrickson of Hickory Wind Apriary in Barnhart, MO, will be at the Kemper Center for Home Gardening from 10 a.m. to 2 p.m.
- Special "bug meals" for kids will be served in the Garden Café.
- Watch *MicroCosmos*—a 75-minute feature film which captures the fun and adventure fo the spectacular hidden universe of bugs. Shoenberg Auditorium. 11 a.m. and 2 p.m.



calendar

Continuing

It's a Great Garden Adventure!
Enjoy one of four self-guided tours through the Garden—designed for fitness, walking with inquisitive children, strutting with the stroller, or even wheelchair tours. Included with regular Garden admission or membership.

Now to Aug. 26:
Marvelous Monday Nights—Man alive, it's free after five! Garden admission is free on Monday evenings from 5 to 8 p.m. for all visitors. Sandwiches, cookies, beverages, and frozen desserts may be purchased for indoor or outdoor dining. Enjoy sunsets in the Garden, romantic twilight walks through the Garden, the cooler temperatures in a place of serene beauty. Monday nights in July will also feature "happy hours" at the Garden.

Now to July 5:
"Treasures of the Andes," an exhibition by artist Stig Dalström. RC.

Now to Aug. 16:
Summer Science Academy. Children ages four to 14 can explore the living world with adventurous and fun science-oriented classes. Enrollment is first-come, first-served. Call (314) 577-9506.

Now to Sept. 14:
Summer classes and walks for adults and families at the Shaw Nature Reserve. For information, call (636) 451-3512. SNR.

July

July 1 to Aug. 31:
"Plants of Merit" An exhibition of digitally enhanced photographs by Master Gardener Jim Teng. Images available for purchase; proceeds benefit the Garden. KC.

July 3, 10, 16, 17, & 24:
Whitaker Music Festival. See page 5 for details. 7:30 p.m. CA.

July 6, 13, 20, & 27:
July is "Kids in Bloom" month at the Kemper Center for Home Gardening. See page 11 for details. 10 a.m. to 2 p.m. KC.

July 10–Aug. 23:
Exhibition of floral photography by Teri O'Neill. RC.

July 13–21:
Henry Shaw Cactus Society show and sale. July 13, noon to 5 p.m. July 14–21, 9 a.m. to 5 p.m. RC.

July 15:
"A Natural History of Socotra." Slide lecture by Dylan Hannon, plant propagator at Rancho Santa Ana Botanic Garden. The island of Socotra, off the east coast of Somalia, is a center for unusual succulent plants, many of which are popular as horticultural rarities. 7 p.m. R.C.

July 15–Oct. 6:
David Rogers' BIG BUGS invade the Sophia M. Sachs Butterfly House and the Garden! See page 10–11 for details. CL. BH.

PHOTO BY TIM TENG

Plants of Merit: Flowers and Pixels
July 1–August 31
Kemper Center

Jim Teng has been a Master Gardener volunteer at the Garden for years, but it wasn't until last year that he decided to pair his interest in photography and digital imaging with his Garden work, creating a series of artworks he defines as "flowers and pixels."

"I gather the samples for the Plants in Bloom cart," says Teng, relating the moment of discovery. "One day I decided to scan some of the plants. I laid the branches and leaves right on the scanner."

From a family of artists—both his father and his grandmother were famous calligraphers in China—Teng digitally enhanced his photography and scanned images to create the 30 works in his Plants of Merit exhibit on display in the Kemper Center for Home Gardening from July 1 to August 31. Proceeds from sales of Teng's work will benefit the Garden. Don't miss this fascinating and beautiful display.

July 19:
Tour the EarthWays Home at Grand Center. Call (314) 577-0220. EH.

July 20 & Aug. 17:
Big Bugs Family Days at the Garden. See details on page 11.

July 20:
Garden StoryTime, for children ages 4–10. 11 a.m. RC.

July 24:
Member's Day: Antique Appraisal. See page 14.

July 24:
Henry Shaw's birthday celebration extravaganza. See details on page 11.

PHOTO BY TIM PARKER

Inauguration of the new Henry Shaw Ozark Coridor at the Shaw Nature Reserve. Call (636) 451-3512 for information. SNR.

July 28:
Greater St. Louis Iris Society sale. 10 a.m. to 5 p.m. RC.

# of events

August

Aug. 4:
Orchid Society of Greater St. Louis auction. Noon to 5 p.m. RC.

Aug. 7 –11:
Hot! Hot! Hot! Garden Gate Shop summer sale. 9 a.m. to 5:30 p.m. Members save 20% on everything in the shop, with additional discounts on select MBG Press books.

Aug. 9:
Member's Day: Chinese Garden. See page 14.

Aug. 11:
Missouri Botanical Garden Daylily Society sale. 9 a.m. to 5 p.m. RC.

Aug. 16:
Tour the EarthWays Home at Grand Center. Call (314) 577-0220. EH.

Aug. 17:
Garden StoryTime, for children ages 4–10. 11 a.m. RC.

PHOTO BY DAVID ROGERS

Aug. 17:
Big Bugs Family Days at the Garden. See details on page 11.

Aug. 18:
Greater St. Louis Daylily Society sale. 9 a.m. to 5 p.m. RC.

Aug. 24–25:
Gateway West Gesneriad Society show and sale. 9 a.m. to 5 p.m. RC.

Aug. 24 to Sept. 6:
Japanese art exhibition. RC.

Aug. 31 to Sept. 2:
Japanese Festival.
See details on pages 3–4.

Upcoming

Sept. 21:
Prairie Day. 10 a.m. to 4 p.m. SNR.

Oct. 5–6:
Best of Missouri Market.

October 13:
Fall Harvest Festival, sponsored by Schlafly Beer and Sauce Magazine. Food and drink by local restaurants, music by local bands.10 a.m. to 4 p.m. SNR.

Key
All events are free with admission or membership unless otherwise noted.

BH = Butterfly House,
CA = Cohen Amphitheater
CL = Climatron
EH = EarthWays Home
GGS = Garden Gate Shop
JG = Japanese Garden
KC = Kemper Center
MC = Monsanto Center
RC = Ridgway Center
SNR = Shaw Nature Reserve
SP = Spink Pavilion

ARTWORK BY STIG DALSTROM

Artwork Sale
August 1–31, Available in the Garden Gate Shop

The Missouri Botanical Garden Press presents an offer exclusive to members.

For the month of August, two series of the Press's most gorgeously illustrated orchid books will be available to Members at a 20% discount. And at the Garden Gate Shop's Hot! Hot! Hot! Summer Sale (August 7–11), you can combine this discount on these nine titles with your additional member's discount for a total discount of 40%!

A Treasure of Masdevallia and *Orchids of the Marquis of Lothian*: Each volume of these exquisite series features 15 plates on archival paper suitable for framing and illustrated by famed Swedish botanical illustrator Stig Dalström, whose work is on display in Monsanto Hall through August 23. Available at the Garden Gate Shop and online at www.mobot.org/mbgpress. The perfect gift for the orchid lover in your life or for anyone who admires fine botanical art.

Missouri Botanical Garden
4344 Shaw Boulevard
St. Louis, MO 63110

Hours
The Garden is open every day except Christmas, 9 a.m. to 5 p.m., and till 8 p.m. on Mondays from Memorial Day to Labor Day. Parking is free.

Admission
- Free for members
- General admission is $7 ($3 for St. Louis City/County residents).
- Senior admission (65+) is $5 ($1.50 for St. Louis City/County residents).
- Children age 12 and under—free.
- Garden admission is free to St. Louis City and County (ZMD) residents until noon every Wednesday and Saturday throughout the year, (except during Japanese Festival and Best of Missouri Market).
- Special events may require a small additional fee.

Information
For 24-hour, pre-recorded information, call (314) 577-9400. Outside the (314) area code, call toll free 1-800-642-8842.

Tours, Education, Fitness
Walking tours led by Garden Guides leave from the ticket counter at 1 p.m. daily throughout the year (except during Japanese Festival and Best of Missouri Market).

Guided tours of Tower Grove House, Garden founder Henry Shaw's 1851 country home, are available daily, between 9:45 a.m. and 4 p.m. Nominal extra charge. The Tower Grove House is closed each January for renovation.

Hands-on learning activities are presented each Saturday throughout the year from 10 a.m. to 2 p.m. These fun activities are tailored to fit the age range of the audience and utilize toys, puzzles, and games to help visitors learn about plants and their environment. Brookings Interpretive Center or on the Garden grounds.

Garden walkers' breakfasts. In cooperation with the American Heart Association, the grounds open early every Wednesday and Saturday at 7 a.m. to encourage fitness walking. A light breakfast is available for purchase in the Garden Café starting at 7 a.m.

Guided tours of the EarthWays Home take place the third Friday of every month. Visit this century-old Victorian home, renovated to demonstrate energy efficient systems, recycled products, and sustainable lifestyle choices. Tours begin at 10 a.m., 11 a.m., noon, and 1 p.m. Call (314) 577-0220.

members

New Membership Services Desk

We are pleased to announce the opening of our new Membership Services Desk in the Grigg Lobby of the Ridgway Center. After much planning and work, the Desk officially opened June 4, 2002. Our new space will greatly enhance member services by providing computer accessibility, credit card processing, and premium display areas.

We look forward to seeing you, please stop by and take a look!

PHOTOS BY DIANE WILSON

Pictured above with Dr. Peter H. Raven and President of the Members' Board Susie Schulte, are all past Membership Desk Chairs. From left, D'Arcy Elsperman, Jean Crowder, Mim Kittner, Paul McClinton, Peggy Pautler, Carole Vohsen, and Sue Oertli. Absent from photo: Norma Hill, Gene and Ann Spradling.

Inset: Current Membership Desk Chairs Peggy Pautler and Carole Vohsen cutting the ribbon.

Membership Benefits

Free Admission to the Garden, including the Garden Café, Tower Grove House, and Shaw Nature Reserve for two adults and all children under age 18 for one year. Discounts on admission to Garden public events.

Free Publications including the *Bulletin*, 6 issues a year filled with information and activities at the Garden, Shaw Nature Reserve, and Sophia M. Sachs Butterfly House plus home horticulture advice from the experts at the Kemper Center for Home Gardening.

Flower Show Parties
For members only, previews of the annual Holiday Flower Show and Orchid Show.

Monthly Members' Days
Special programs presented exclusively for Garden members and their guests feature free tram rides, 10% off in the Garden Café, and special discounts in the Garden Gate Shop.

Annual Plant Sales
The Garden Gate Shop presents annual Spring, Fall, and Holiday sales with 20% discounts for members only.

Discounts
Members receive 10% off all purchases in the Garden Gate Shop, plus special rates on selected educational courses.

Members' Travel
Special trips explore public and private gardens around the world.

Reciprocal Admission
to over 150 selected botanical gardens around the country.

Discounted Subscription Rate
for *St. Louis Homes & Lifestyles* magazine.

Members' Days

PHOTO BY TRENT FOLTZ

Antique Appraisal by Ivey-Selkirk's

Please join us for a very special Henry Shaw Birthday event, when four appraisers from Ivey-Selkirk auction house will be available to provide you with verbal appraisals of your fine art, antiques, and collectibles. The appraisers will review your treasures in the following categories: American, Continental, and English paintings, prints and sculpture, modern and contemporary decorative art and design, porcelain and pottery, silver and jewelry. Please note there will be a limit of two articles per person. For further information, please call Brenda at (314) 577-0879 or email brenda.zanola@mobot.org.

Wednesday, July 24
11 a.m. to 1 p.m.
Shoenberg Auditorium

PHOTO BY JACK JENNINGS

Nanjing Friendship Garden

Join us for a presentation by Alan Boefer, Senior Horticulturist in the Nanjing Friendship Garden. Discover the tranquil history and beauty of this Chinese garden where time seems to pause. After the presentation, walk the garden with Alan and see the many plants and landscape features that make this a very special place.

Friday, August 9
11 a.m.
Shoenberg Auditorium

Members' Days are presented exclusively for Garden members and their guest. Seating is limited and is on a first come, first served basis. Members receive free tram rides, special discounts in the Garden Gate Shop, and 10% off in the Garden Café.

Hats off to our Mother's Day Organizers!

Congratulations to our Mother's Day Luncheon and Fashion Show co-chairs Nancy Sauerhoff and Andy Dielmann for organizing this popular annual event sponsored by Dillard's. Special thanks to Vickie Newton KMOV-4 celebrity emcee, Build-A-Bear Workshop, and Dominic Michael Salon.

PHOTO BY MARY BUTKUS

Garden Docents

Congratulations recent graduates of the Garden Docent program! The Garden Docents (formerly Garden Guides) lead thematic tours of the Missouri Botanical Garden for all ages, but focusing mainly on school groups. These highly trained volunteers interpret the features of the Garden so that visitors can appreciate the plants and their environment, as well as the history and importance of the Garden. A training session for a special corp of Docents who will lead "Discovery Unit" tours will begin in fall 2002. For information on the Docent program, or to learn how you can be a part of the upcoming training, please contact Jennifer at (314) 577-5149 or email jennifer.schaus@mobot.org.

Caption: The latest Garden Docent grads with their trainers. In front: Sandy Sher and Gale Murphy. Row 2: Lani Alsup, Barb Huning (Trainer), Sonya Goldman, Margaret Petruska. Row 3: Karen Collins, Kevin Wahl, Robert Weinman, Carol Donelan (Trainer). Not present: Lucyann Boston.

Make a difference...again!

By being a member of the [illegible] you are already making a difference with your financial contribution. By donating a little more you can make a difference again—with your participation at your [illegible]. We invite you to [illegible] on Wednesday, September 4, from 10 a.m. to 6 p.m. in Ridgway. Please call Jackie at (314) 577-5187 or email jackie.juras@mobot.org.

PHOTO BY KAREN HAGENOW

PHOTO BY TIM PARKER

Volunteer Evening

Over 1,200 volunteers contributed over 85,000 hours of their time to the Garden in 2001. On May 28, the Garden honored this remarkably capable volunteer workforce at the annual Volunteer Evening.

Six volunteers, pictured above with Dr. Raven, received special awards for their truly outstanding contributions. They are (from left): Rus Goddard (Extra Service Hours Award, Shaw Nature Reserve); Edna Drackert (Extra Service Hours Award, Butterfly House); Victoria Kearns (Special Achievement Award for the Fall Festival at the Butterfly House); Jim Hogan, (Extra Service Hours Award, Gateway Greening); Nan Day (Commitment Award, Education with the Garden Docents); and Ray Potter (Career Service Award, Education at the Litzsinger Road Ecology Center). The 2002 Volunteer Evening had an added poignancy: Volunteer coordinator Jeanne McGilligan retired at the end of May after 22 years of service to the Garden community.

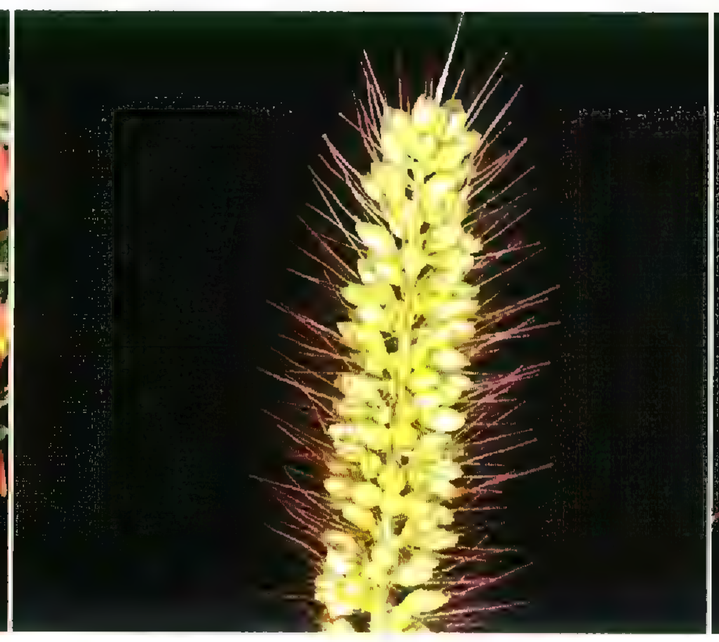
Volunteer Interpreter Cart

As you stroll through the Garden this summer, keep an eye out for our Volunteer Interpreter carts! These mobile educational stations will be out and about on the grounds of the Garden with volunteers in bright blue eager to enhance your visit to the Garden.

The carts are full of information and activities for visitors of all ages, from toddlers through adults, on a variety of scientific and botanical themes, and our Volunteer Interpreters help make every visit to the Garden an opportunity to learn more about the natural world by answering your questions.

Volunteers are always needed! If you are interested in this fun and engaging outreach of the Education division, please call Peggy at (314) 577-5131 or email peggy.kelly@mobot.org.

research



A unique collaboration between the Missouri Botanical Garden and the University of Missouri–St. Louis has placed the university in the international scientific community. The E. Desmond Lee and Family Laboratory of Molecular Systematics at UMSL trains students and researchers from both the Botanical Garden and the university to apply DNA sequencing tools to the study of plant taxonomy. Since its creation in 1998, people from 14 nations have benefited from the lab.

Fourteen small flags perch above the blackboard in Dr. Elizabeth "Toby" Kellogg's lab on the fourth floor of the Research building. "We have a flag for each nation represented by people who have worked in the lab," says Dr. Kellogg, Professor of Botanical Studies and director of the E. Desmond Lee and Family Laboratory of Molecular Systematics. In 2001, 18 graduate students and post-doctoral researchers from 10 countries carried out molecular research in plant systematics in the lab

Formed in that late 1990s, the Des Lee Collaboration Vision links area universities with St. Louis public schools, major cultural, social service, and civic organizations. The link is forged through endowed professorships that incorporate teaching, research, and new community programs in fields ranging from science education to music to youth violence. The molecular systematics lab at UMSL is funded by Des Lee, as is Dr. Kellogg's professorship.

"As an evolutionary biologist interested in plants, I was eager to direct the lab and work with the staff at the Missouri Botanical Garden," says Dr. Kellogg, who left a teaching position at Harvard University in Cambridge, Massachusetts, to take the position. "Tell any plant taxonomist in the world that you are associated with Missouri, and they will know that you mean the Botanical Garden in St. Louis."

"Systematics studies the evolution and classification of various species. In our case it's plant species," says Kellogg. "The term, molecular, means that we use DNA sequencing and other tools to investigate the causes of evolutionary changes in plants at the gene level." Learning to work with DNA has become a central part of the training of systematists and taxonomists (professionals who focus on classifying and naming plants) because of the certainty it brings to defining evolutionary relationships among orders and families of plants. And so, on any given day, five to seven people may use the lab to help them determine the phylogeny (pattern of branching that leads to species diversity) of a particular species. Post-doctoral researchers help train new graduate students and assist Dr. Kellogg with original research.

PHOTO BY LEE PHILLION

PHOTO BY LEE PHILLION

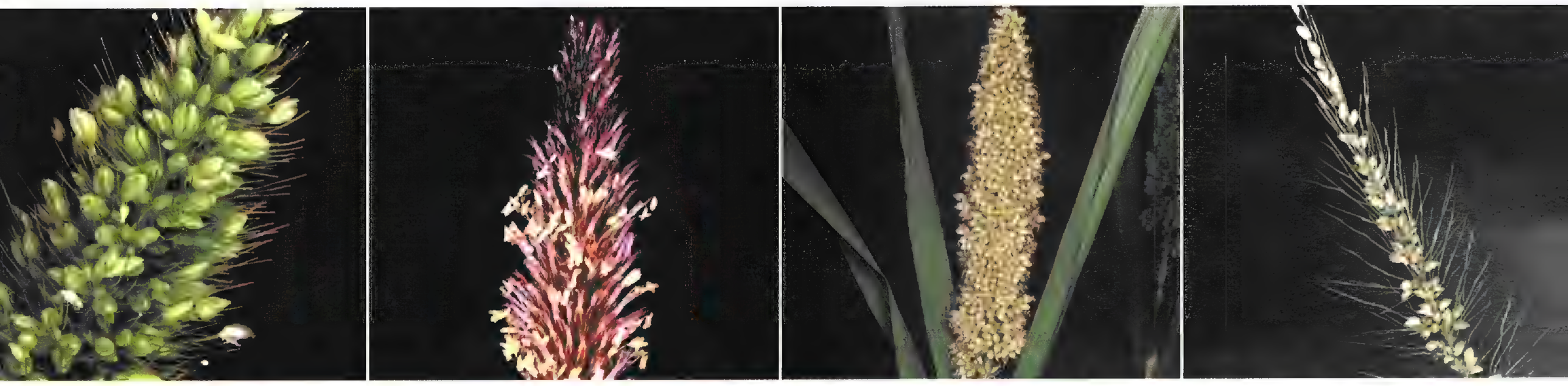
Caption: MBG Head of Graduate Studies Dr. Mick Richardson examines specimens with Bee Gunn, an MBG graduate researcher from Malaysia, and Dr. Kellogg.

Roughly half of the graduate students have research advisors at UMSL. The rest receive guidance from primary research advisors on the staff of the Garden. St. Louisans know and love the Garden for its gorgeous flowers and grounds, but MBG is also known internationally as a world-class research organization, the "unseen Garden," with 45 Ph.D. researchers on staff. The Garden has trained hundreds of botanists and systematists, and currently provides training for more than 30 graduate students. When the molecular systematics lab was created at UMSL in 1998, it opened a whole new realm of opportunity for Garden students to do cutting-edge DNA work.

"The collaboration generated through the Laboratory has been excellent for both the Garden and the University," says MBG Curator Dr. Peter Hoch. "Housing the laboratory at the University has enabled the Garden to focus our resources on what we do best—large flora projects and field exploration projects around the world—and still have the benefit of a strong molecular systematics program to support our research. The combination of a prominent botanical garden and a university with an excellent and steadily growing reputation in the field of systematics has attracted high-quality graduate students and post-doctoral researchers to both institutions."

Dr. Mick Richardson, Manager of Graduate Studies at the Garden, comments, "Toby has created a wonderfully open and welcoming environment in the lab for anyone interested in studying plant taxonomy." The "open door" policy of the lab means that students can always find someone willing to teach the techniques of sequencing or talk about plants and evolution. Everyone associated with the lab attends a weekly meeting, where peers present their work for critique and lab matters are discussed over homemade refreshments. "To have the resources of these two outstanding institutions available for my work is fantastic.," says Lucia Lohmann, a Ph.D. candidate from Venezuela. "The Botanical Garden and the University have formed a good relationship that benefits students from all over the world."

"How do we account for the astonishing variation, both within and among plant species? How do we explain the unity of life and the marvelous adaptive features of life? Those questions continue to intrigue me," says Dr. Kellogg. "Evolutionary biology, as a field of study, has been energized by the DNA-based molecular technologies we use in our laboratory. With these tools, one can envision future applications of evolutionary biology in the conservation of rare and endangered species and ecosystems, and in predicting the effects of environmental change."



PHOTOS BY ANDREW DOUST

Left Caption: Students and visiting scholars from around the world learn the techniques of sequencing plant DNA at the E. Desmond Lee and Family Laboratory. Dr. Elizabeth Kellogg discusses methodology with Dr. Andrew Doust, a post-doctoral researcher from Australia.

Above Caption: Research photos of a variety of plants, including grain crops, that exhibit inflorescence. Researchers at the Laboratory are using second generation hybrids to analyze genetic and morphological variation that can help find genes controlling inflorescence branching.

plant societies

This list will be hereafter published once a year in the January issue of the Bulletin. To change your listing call (314) 577-0851 or email ellen.flesch@mobot.org. The most current information will be available year round on the Garden's website: www.mobot.org.

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homepages.ezeeweb.com/rosenut

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jason.delaney@mobot.org

Greater St. Louis Daylily Society
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Missouri Orchid Society
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www.slwgs.org

Webster Groves Herb Society
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buehrig31@aol.com

Wild Ones Natural Landscapers,
St. Louis Chapter
Scott Woodbury, (636) 451-3512
scott.woodbury@mobot.org

PHOTO BY JACK JENNINGS

CHEFS IN A GARDEN

A Special Event to Benefit Gateway Greening

Sunday, September 8, 2002, 6 to 9 p.m.

Join us for an evening of wonderful food prepared by 10 of the most talented and creative chefs in St. Louis. Chefs such as Dave Owens of Cardwell's at the Plaza, Cary McDowell of The Crossing, and Steve Gontruam of Harvest will be using herbs and vegetables grown by community gardeners to prepare a wonderful assortment of tasting dishes. Great food, great music, and a delightful garden atmosphere combine to create a wonderful evening that also supports a good cause.

The proceeds of this event will support the efforts of Gateway Greening, a non-profit organization in alliance with the Garden, that works with neighborhoods in the city of St. Louis to turn abandoned lots into community gardens and green spaces. Come share our harvest and help neighborhoods fighting urban decline.

Tickets are $100 per person and corporate sponsorships are available. Please call Gateway Greening at (314) 577-9484 for more information and to purchase tickets.

Become a Corporate Partner today!

The corporate partners program is designed to strengthen the relationship between the Missouri Botanical Garden and the corporate community in the greater metropolitan region. Ed Higgins, Garden Trustee and Corporate Partner Committee Chair, invites you to consider the benefits of membership. Becoming a Corporate Partner offers your company many privileges. For information, please call Jamie at (314) 577-9513 or email jamie.cox-robertson@mobot.org.

At right, we recognize corporations who recently joined, renewed, or upgraded their Corporate Partners membership.

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Mallinckrodt
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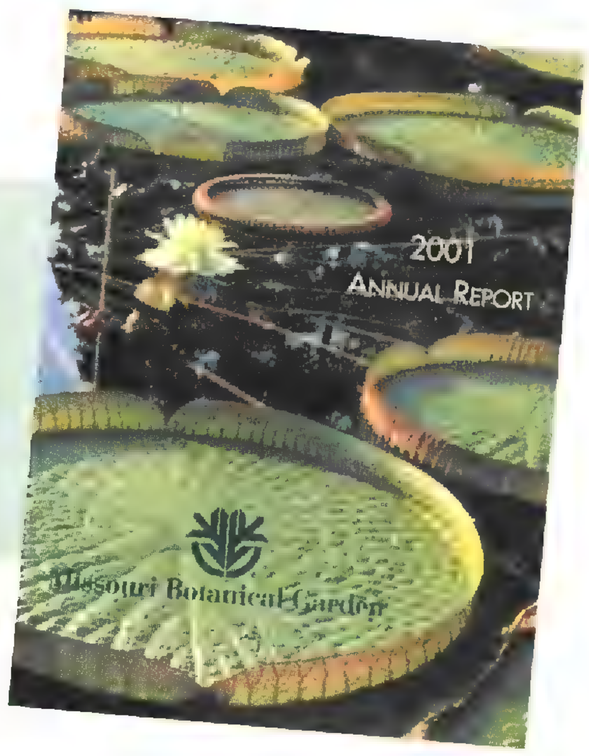
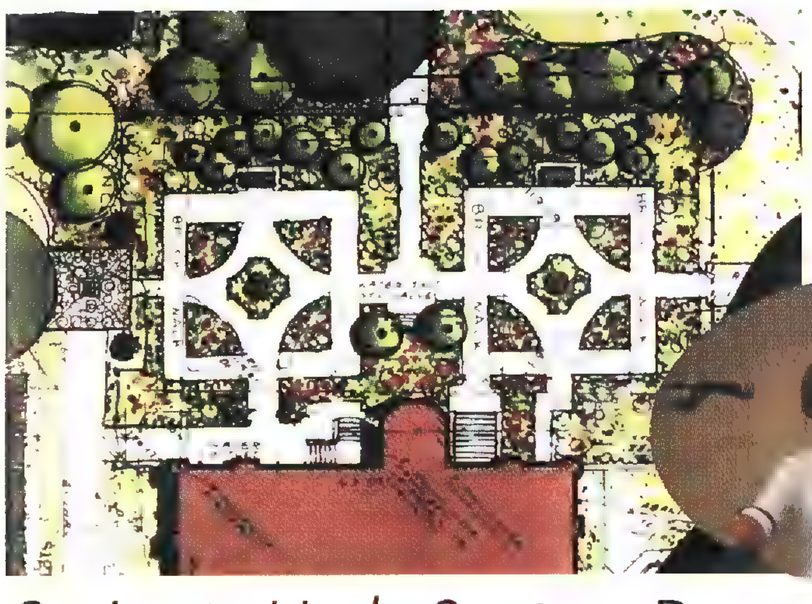
Tubular Steel, Inc.

2001 Annual Report Now Available

The Missouri Botanical Garden's 2001 Annual Report is now available. To have a copy sent to you, please call Judi Branstetter at (314) 577-5119 or email judi.branstetter@mobot.org.





St. Louis Herb Society Donation

On Friday, May 31, the St. Louis Herb Society presented the Garden with a generous gift of $10,000 at their annual meeting. The funds are dedicated for planned renovation of the St. Louis Herb Society garden behind Tower Grove House.

The St. Louis Herb Society has maintained the herb garden at Tower Grove House for over 60 years. Society members were the first volunteers in the Garden's Horticulture Division. The Garden is deeply grateful to this exceptional organization.

Caption: Plans for the proposed herb garden renovation. Inset: St. Louis Herb Society President, Barbara Rezhy presents Dr. Raven with the check.

PHOTOS BY MARYBUTKUS

Henry Shaw Dinner and Medal

On May 8, Dr. William Conway, senior conservationist for the Wildlife Conservation Society, became the 55th recipient of the Henry Shaw Medal, the Garden's highest honor, in a special presentation at the annual Henry Shaw Dinner. Dr. Conway delivered a well-received speech on the necessity of conservation.

Caption: Board of Trustees Vice President Scott Schnuck presents the Henry Shaw medal to Dr. William Conway.

tributes MARCH–APRIL 2002

For information on making a gift to the Tribute Fund, please call the Development Office at (314) 577-5120.

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By leaving a bequest to the Garden, you create a legacy that will benefit others for generations to come. If you have already included the Garden in your estate plans, we hope that you will share this information with us. We would like to express our gratitude and welcome you into the Heritage Society. Of course, your wishes for anonymity are respected.

Please call Judi Schraer, the planned giving officer, at (314) 577-9455 for further information and a complimentary brochure.

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Hot! Hot! Hot! Summer Sale: August 7–11.

Shop in air-conditioned comfort this August, and Members enjoy an additional 20% off everything in the Garden Gate Shop during the summer sale Wednesday, August 7, to Sunday August 11.

PHOTOS BY MBG PUBLICATIONS

Development Officer Maggie Bayer relaxes in the Gladney Rose Garden in style on this exclusive whimsical bench. Dragonfly model also available. Both benches are hand cut by professional metalworkers and feature a lovely verdigris patina.

the shop at the Garden

Japanese Festival

From bonsai trees to collectible dolls and figurines, the Garden Gate Shop is your source for Japanese Festival merchandise. Check out our good luck plastic koi, bamboo table-top temples, gorgeous pottery and stoneware, and exotic jewelry. The perfect souvenir of Japanese Festival 2002, or the perfect gift for any occasion.

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4344 Shaw Boulevard
(314) 577-5137
Open daily 9 a.m. to 5:30 p.m.
All proceeds from the Garden Gate Shop benefit the Missouri Botanical Garden

Missouri Botanical Garden Library
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members' entry court

Bricks donated to the Members' Entry Court at the William T. Kemper Center for Home Gardening between March 31 and May 31, 2002:

Rose signature bricks

Michelle Gioia-Campbell
Anthony Gioia

Engraved clay bricks

Augie and Marj Beyer
Charles Beyer
Hilary Beyer
Elizabeth Morey
Lucille and Alfonso Bozada
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PHOTOS BY MBG PUBLICATIONS

garden café

New Garden Café Express

Grab it and go!, with the new and improved offerings at the Garden Café express cart in Monsanto Hall—from a variety of ready-made sandwiches to a full assortment of beverages and snacks. Also back by popular demand, the Member's favorite chicken salad returns, available as a salad plate in the Café or as a sandwich on the Café express cart. Enjoy a leisurely meal in the air-conditioned dining room or grab a quick bite and go for the patio this summer at the Garden Café.

Remember: Members receive 10% off in the Garden Café on Members' days July 24 and August 9. Bring a friend for lunch!

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The much-beloved Candyman sports miniature taffy works of art for good girls and boys, and for all visitors to the Japanese Festival who are fortunate enough to meet him.

Japanese Festival

Goyukkuri nasshinde kudasai.
Please join us and have fun!
at the 26th annual Japanese Festival
August 31 to September 2.
In addition to all the usual favorites—
the Sanjuan taiko drum players, tea
ceremonies, bon odori summer festival
dancing, traditional music and
candlelight tours—we host the
Ambassador of Japan and feature a talk
on the Japanese love affair with
baseball by acclaimed scholar
Dr. Masao Ike.

Japanese Festival
August 31–September 2
10 a.m. to 10 p.m. Saturday and Sunday
10 a.m. to 5 p.m. Monday
Admission: $10 adults, $7 seniors, $3 members.
Free to children 12 and under.
Festival information (24-hour Garden info line):
(314) 577-9400 or 1-800-642-8842

PHOTO BY TIM PARISH

Hours
The Garden is open every day except Christmas,
9 a.m. to 5 p.m., and till 8 p.m. on Mondays from
Memorial Day, May 27, to August 26. Parking is free.

Admission
- Free for members
- General admission $7
  $3 for St. Louis City/County (ZMD) residents
- Senior admission (65+) is $5
  $1.50 for St. Louis City/County (ZMD) residents.
- Children age 5 and under—free
- Garden admission is free 9–11 a.m. and 5–8 p.m.
  (ZMD) residents on Wednesday
  Wednesday and Thursday [illegible]
  [illegible]
  Day of Wisteria Mania.
- Special events may require additional fee.

General Information
For 24-hour garden information
call (314) 577-9400 (ZMD) or
(800) [illegible]

Missouri Botanical Garden BULLETIN (ISSN 0026-6507)
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Missouri Botanical Garden

Bulletin

September/October 2002 Vol. LXXXX, No. 5

This edition...

Best of Missouri Market,
Prairie Day, Harvest Fest,
Energy Fair, Wine Time,
Greening the Golden Years,
And more...

Fall Harvest

Director's comment

Director's Comment

When you visit us at the Garden, the Shaw Nature Reserve, or the Sophia M. Sachs Butterfly House, I hope you enjoy the splendid displays, the wonderful natural communities of plants, trees and flowers, and of course butterflies. What you won't see, I trust, are those aspects of our campuses that must be repaired. From the pathways, to outdoor shelters and gazebos, to the paint and tuck-pointing of buildings, even the irrigation systems and lavatories, the Garden's infrastructure is kept in top shape by Paul Brockmann and his staff at the Garden, John Behrer at the Nature Reserve, and Joe Norton at the Butterfly House.

It is an enormous and costly effort, but there would not be a Garden to visit if we did not stay on top of it. With hundreds of thousands of visitors annually, the stress is greater than on most universities. Many of you have been very generous in helping us keep our campuses in good condition, and we will need your support for what our staff calls R&R, repairs and renovations, in the future. The needs are always there because people are always visiting us, for which we are very grateful.

You won't see these needs, I hope, if you attend any one of the spectacular events of the autumn, all developed around our mission regarding the importance of plants to our lives, and our commitment to conservation and biodiversity.

Kicking off September, Japanese Festival this year marks the 25th anniversary of the opening of the Japanese Garden, the largest in North America, and a symbolic recognition of the importance of multicultural understanding and relationships. This cooperative spirit is showcased in the opening ceremony, where the traditional keg of sake is broken by representatives of both the Japanese community and the Garden.

The Shaw Nature Reserve and the Missouri Department of Conservation will hold Prairie Day on September 21, a wonderful way to enjoy the restored prairies, wetlands, and glades, enjoy good food, and plenty of activities for families.

Our spectacular autumn event is the 11th annual Best of Missouri Market, co-chaired as always by Nora Stern and Ellen Dubinsky, with hundreds of Members volunteering to make it the grand success it has been since the very first Market. On Saturday and Sunday, October 5 and 6, more than 100 vendors from throughout the state will display their wares—crafts, native plants, homemade foods, and an area for children with a petting zoo and plenty of activities.

It's back to the Shaw Nature Reserve on Sunday, October 13, for the first Harvest Festival, featuring three local bands and restaurants from the St. Louis area. Local farmers will offer fresh produce and homemade goodies from their farms. There will be plenty of activities for kids, too, so don't miss this opportunity to enjoy the beautiful fall foliage.

Satuday, October 19, the Gateway Center for Resource Efficiency will sponsor a Fall Energy Fair, complete with interactive exhibits showing the value of efficient energy and recycling. This fun, educational event is a street fair beside the historic, efficiency-rehabbed EarthWays Home in Grand Center.

BIG BUGS continues at the Sophia M. Sachs Butterfly House in Faust Park through October 6. There is one gigantic ant at the Garden stationed just past the Climatron. Not to be missed!

We're about to enter a time of terrific promise for the Garden. We're grateful for your willingness to share in our future. I look forward to seeing and talking to you in the months ahead.

Peter H. Raven

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24-Hour Info (314) 577-9400

Sophia M. Sachs
Butterfly House
(636) 530-0076

Shaw Nature Reserve
(636) 451-3512

24-Hour Gardening Tips
HortLine (314) 776-5522

Horticulture Answer Service
Talk to a Master Gardener from
9 a.m. to noon, Mon. to Fri.
(314) 577-5143

Composting Hotline
(314) 577-9555

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The BULLETIN is sent to every Member of the Garden as a benefit of Membership. For a contribution of as little as $60 pe year, Members also are entitled t free admission to the Garden, Shaw Nature Reserve, and Tower Grove House; invitations to special events and receptions; announcements of all lectures and classes; discounts on Garden Gat Shop merchandise and course fee and the opportunity for travel, domestic and abroad, with other Members. For information, call (314) 577-5118.

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Editor's Note

Though we might not feel it in the midst of muggy 90-degree weather, fall approaches. This year marks my first fall back after living in Southern California, and I'm really looking forward to it. Fall is that best, most complex season: a season of abundance, the harvest, but also simultaneously of the specter of scarcity, preparation for winter.

In the old agrarian cycles, fall was a time to celebrate the fruits of hard manual labor. So too at the Garden, a season of long days in the hot sun slows into lengthening shadows, maintenance, and greenhouse prep. Visitors to the Garden, Shaw Nature Reserve, and Butterfly House will enjoy all the many festivals and fairs, our homegrown pride—the Best of Missouri Market, but be sure to stop by the Kemper Center to find out about winterizing your yard. Fall is bittersweet: a joyous gratitude for a successful summer, but also a symbolic little death as we modulate from the *vita activa* into a more contemplative state.

This year, as we enter this time of simultaneous celebration and reflection, the events of September 11 have added a new poignancy. The Garden will offer a small remembrance designed not to compete with the larger city-wide memorials. At noon on that Wednesday, we will observe a moment of silence and prayer. The ceremony will take place near the Remembrance Tree planted last fall and beside the Chapungu statue *The Sole Provider*, donated to the Garden in memory of the victims of September 11.

As we celebrate our blessings, our good life here in St. Louis, our beautiful Garden, our many joyous festivities, our family and friends, we remember.

Elizabeth McNulty, editor
elizabeth.mcnulty@mobot.org

Best of Missouri

Best of Missouri Market
Sat. and Sun., Oct. 5 & 6
9 a.m. to 5 p.m.
(7 a.m. Sat. for Members only.)
Admission: $7 adults,
$5 seniors (65+),
$2 Members,
children 12 and under—free.

It's the Best of Missouri

The Missouri Market is Bigger and Better than ever in 2002

This year marks the 11th Annual Best of Missouri Market at the Garden, and it's shaping up to be the best ever, say co-chairs Nora Stern and Ellen Dubinsky.

"What makes the Market great is the mix of previous and new vendors, and this year, we have at least 35 great new vendors, in addition to all the old favorites," says Nora. "Our Kids' Corner is going to be fabulous this year, with the addition of the Oscar Meyer Wienermobile and Sorella Beads to our already great lineup and the Home Depot Workshop."

"In 11 years, we've grown from a one-tent market into three tents with over 100 vendors," adds Ellen. "We're a family event with something for everyone. People can walk through the beautiful Botanical Garden, get in some early holiday shopping, sample some delicious food, and have a great day. And the *Market Directory* lets you find all the products you love."

So, don't delay. Gather your family, friends, and neighbors and plan your days at the Market to catch the entertainment and dine on hearty festival fare. Kids go crazy for the farm- and food-related activities and music. Whether you care to catch a cooking demo of local specialties or just knock out some holiday shopping early this year, you'll find all the options covered at the 2002 Best of Missouri Market.

Of Artisans, Folk Art, and Handicraft

As always, the Best of Missouri Market features wonderful handicrafts from all over the state. The breadth and depth of the offerings this year truly shines. Just some of the crafts include: hand woven baskets, bent willow furniture, wooden toys, primitive folk art, trellis art, handmade soaps, picture frames, decoys, fountains, candles, blown glass, lawn sculptures, wood furniture, jewelry, pottery, wooden boxes, hand forged iron, scrimshaw, plants, quilts, baby items, shadow boxes, dried floral designs, hand painted tiles, theorem paintings, unique birdhouses, butterfly boxes, and decorative pillows.

PHOTOS BY TIM PARKER

Homegrown Tunes

Musical entertainment features local family favorites.

- The Missourians featuring Vesta Johnson, local bluegrass faves, Saturday and Sunday, 11:30 a.m.
- Raven Moon, roots rock and country, Saturday and Sunday, 2 p.m.

Cooking with Flavor

Kemper Center classrooms will feature wonderful cooking demonstrations by local specialty stores and restaurants.

- Straub's will present a fall meal, Sat. 11 a.m. and 1 p.m. (with a drawing for a gift basket) Straub's private label will be available for purchase.
- Harvest Restaurant Chef Steve Gontram will prepare a seasonal entrée, Sun.1 p.m.

Good Eats

Abundant and delicious fall fare is available for purchase on Garden grounds. A variety of local vendors prepare tasty morsels, including (but not limited to!): smoked sausage, grilled chicken, pork sandwiches, roasted nuts, marinated shiitake mushrooms, barbecue, grilled fish, hush puppies, kettle chips, fresh-baked artisan breads, and much, much more. Coca-Cola products and a variety of other beverages will be available.

Sweet Treats

The Best of Missouri Market wouldn't be the Market without all the goodies for snacking and hoarding and gift-giving. Some of this year's sweet treats include: homemade cakes, cookies, and candies; fresh harvest fruits, and the jellies, jams, and pies made thereof; chocolates and fudge, pastries and preserves. There are also the savory snacks, including: pickles, jerky, and relish; and delicious farm-fresh cheese and nuts. The assorted and unique mixes, dips, salsas, marinades, salad dressings, and mustards make great gifts.

Fruit of the Vine

Don't miss the local and regional wine selections, such as Oak Glen Vineyards and Winery (formerly St. James) and Stone Hill Winery. See pages 10–11 for details on other wine-related information and activities at the Garden.

Thank you!

Thanks to our many volunteers who make this event even better each year.

Kid's Corner

The Kids' Corner features a variety of games, activities, and amusements to keep children of all ages entertained. Kids can decorate a pumpkin, milk a cow, and see how apple cider is made. There will be face painting, jewelry beading, and pizza. Pet barnyard animals up close and visit the Oscar Mayer Wienermobile. The Home Depot Kid's Workshop introduces kids to the world of construction through a variety of hands-on woodworking projects: make a birdhouse or a toolbox, for example. Additional live entertainment with Jim Cosgrove and Hiccup Productions.

Face Painting:
Sat. 11 a.m. to 1 p.m.,
Sun. noon to 2 p.m.

Hiccup Productions:
Sat.11 a.m. and 2 p.m.,
Sun. 2 p.m.

The 11th Annual Best of Missouri Market is sponsored by Coca-Cola, Home Depot, Lord & Taylor, Commerce Bank, ConAgra, Edward Jones, and KMOX. Special thanks to the Girl Scout Council of Greater St. Louis for their continued support.

Getting to the Market

Enter at Spink Pavilion on Tower Grove Avenue or at the main entrance on Shaw Boulevard, where there will be direct access to the vendors' area from the parking lot. Additional parking will be available in Tower Grove Park. A shuttle will run continuously between Tower Grove Park and the Garden. For more convenient parking, arrange a carpool or use MetroLink and the Garden Express Shuttle.

Historic Shaw Art Fair

Presented by the Shaw Neighborhood Improvement Association, it's the 10th annual Historic Shaw Art Fair. This outstanding juried show hosts over 120 artists, and offers a wide selection of fine art and fine craft displayed along the Flora Place Parkway in the Shaw Neighborhood, directly east of the Missouri Botanical Garden. For more information, call (314) 771-3101 or visit the Fair's website: www.shawartfair.com.

Shaw Art Fair
Sat. and Sun., Oct. 5 & 6
10 a.m. to 5 p.m.
Admission: $4 adults,
children under 14 are free
Flora Place Parkway,
east of MBG

events

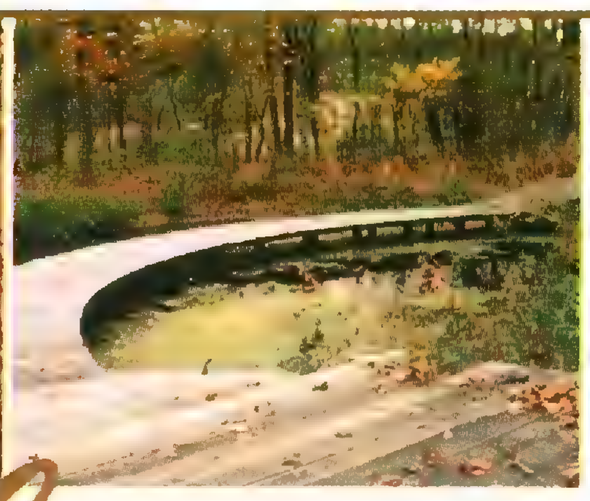
It's been a long and productive summer at the Garden. As fall begins, there is reason to celebrate. Autumn, with its imagery of cornucopias and the harvest, is a time of plenty—a season for gathering, savoring the first fruits, the yield, the reward of exertion. Throughout the Garden and our several divisions, you and your family will find an abundance of festivals and fairs, events historical and trivial, and great fun and educational opportunities. Big annual events take place at the Garden, the Sophia M. Sachs Butterfly House, the EarthWays Home, and the Shaw Nature Reserve almost every weekend throughout September and October. Bring your loved ones, and enjoy together with the Garden the season of plenty and gratitude.

On Garden Grounds...

In case you missed it, the ***Best of Missouri Market*** celebrates its 11th year on October 5–6 with a phenomenal food-and-fun extravaganza at the Garden. See full details on pages 4–5.

Don't miss the return of the popular ***Hurdy-Gurdy Faire*** on Saturday, October 12. Old-fashioned street organ music will be performed throughout the Garden grounds by more than 30 organ grinders.

We also celebrate diversity with our annual ***Latin America Celebration*** on October 19. This year, the event takes as its focus Colombia. Authentic food and decorative arts and crafts will be featured. Children will enjoy the traditional music and dance performances, and a variety of educational activities to learn about Colombian culture.



PHOTOS BY TODD DAVIS AND SCOTT WOODBURY

Schedule of Bands:

Great bands entertain at the first-ever Harvest Festival, Sun. Oct. 13.

- Flying Mules, local bluegrass favorites, 11 a.m. to 12:45 p.m.
- Doghouse Band, bluesy roots rock, 1 p.m. to 2:45 p.m.
- Lonesome Pines, folksy alt-country, 3 p.m. to 5 p.m.

Harvest Festival

Harvest Festival
Sun., Oct. 13
11 a.m. to 5 p.m.
Shaw Nature Reserve

Something's brewing at the Shaw Nature Reserve Sunday, October 13, and it looks to be delicious. Schlafly Beer, Sauce Magazine, and the Washington Missourian have teamed with the Garden to launch the first-ever Harvest Festival, a celebration of good local food, local drink, and local music in scenic Gray Summit.

"We're excited to be hosting this new event," says John Behrer, Director of the Shaw Nature Reserve. "We're anticipating great food and music, and a great time for all who attend."

Festival organizers promise a small organic farmers' market, featuring local produce, meats, preserves, etc. There will be Schlafly beer and Mount Pleasant wines. The restaurant line-up is a who's- who of St. Louis's best contemporary dining, including Modesto, Harvest, Eau Bistro, Kirk's, and many more. "It might be the only time you can sample all these great restaurants side by side," says Sauce magazine's Allyson Mace.

Tours of the Nature Reserve will be available and the Garden's Eco-Act group will be organizing activities for families, including games, face-painting, leaf rubbings, etc.

Besides great food, drink, and produce, there will be great local bluegrass bands as well. Check the schedule for details. For more information, call (636) 451-3512.

Fall Festival at Folk Festival

It's time once again for the annual Faust Park Folk Festival, with its fun displays of blacksmithing, candle making, quilting, and other homespun arts. Children particularly enjoy the demonstrations of old-time laundry washing and paper making. In conjunction, the Sophia M. Sachs Butterfly House is hosting its second annual Fall Festival the same weekend. Kids of all ages will enjoy the displays of carnivorous plants, beekeepers' apiaries, wild bird paintings, and robotic bugs. Clowns, face painters, magicians, and a variety of musicians will be on hand to complete the family fun. Take a hayride and buy treats like candy apples and caramel corn!

Fall Festival
Sat., Sept. 28, 9 a.m. to 4 p.m.
Sun., Sept. 29, 10 a.m. to 5 p.m.
Butterfly House

Bug Out with Fall Festival Trivia Night

Free snacks; beer and soda for sale. Win great prizes, join the raffle, and test your wit and wisdom with bug trivia.

Sat. Sept. 28, 7 p.m.
$100 per table of eight
Call Sarah File at
(314) 361-3365 to register

PHOTO BY TIM PARKER

Prairie Day

It's time once again to don your boots and bonnets and celebrate our unique prairie heritage at Shaw Nature Reserve's biannual Prairie Day!

The event will be held Saturday, September 21, in and around the Nature Reserve's 150-acre tallgrass prairie. Visitors can take a naturalist-led hike, throw a tomahawk, listen to a storyteller, and enjoy old-time music by a string band. Children can participate in pioneer games that their ancestors might have played.

"This is really a great event for families," says Director of the Shaw Nature Reserve, John Behrer. "Kids love the games and old-time demonstrations, and they're educational too."

Living history characters will reenact the lives of the Native Americans and Midwestern pioneers who were early prairie inhabitants. A historian will focus on the Osage Indians. An archaeologist, flintknapper, bow maker, and others will display and interpret artifacts of prairie life. Weavers, spinners, and crafts people will demonstrate their work. Wildlife exhibits will feature the mammals, reptiles, amphibians, insects, and birds of the prairie.

Native plant nurseries will sell wildflower plants and seeds. Hungry visitors may purchase buffalo burgers, homemade baked goods, kettle corn, root beer, and other food and beverages.

Prairie Day is co-sponsored by the Missouri Botanical Garden and the Missouri Department of Conservation. For more information, call (636) 451-3512.

Prairie Day
Sat., Sept. 21
10 a.m. to 4 p.m.
Shaw Nature Reserve

PHOTO BY DALE DUFER

Joltin' Joules and Krazy Kilowatts

Here's a day of free fun and facts that promises something of interest for every member of the family. You're invited to the first-ever Fall Energy Fair, Saturday, October 19. It's a street party at the Garden's EarthWays Home, packed with exhibits and displays, games and demonstrations, highlighting energy-efficient systems and products to save money in your home while saving the environment. Activities can be enjoyed by kids of all ages.

Don't miss your chance to:

- Tour the EarthWays Home—a model of resource efficiency.
- Ride the Energy Bike to power the Fair's sound system.
- Join the Solar Power Relay Team and see light become electricity.
- Make your own recycled-content paper.
- Play energy and recycling carnival games.
- Enjoy food cooked in a solar oven.

The Fall Energy Fair is sponsored by the Missouri Botanical Garden, the Missouri Department of Natural Resources' Energy Center, Bi-State Development Agency, Heartland Renewable Energy Society, Missouri Coalition for the Environment, and the US Green Building Council–St. Louis Regional Chapter and Grand Center.

Parking is free, as is the Fair. For more information, call the Gateway Center for Resource Efficiency at (314) 577-0220 or send e-mail to: gateway.center@mobot.org.

Fall Energy Fair
Saturday, October 19
10 a.m. to 4 p.m.
(Members' preview 9–10 a.m.)
EarthWays Home

Above: Visitors to the EarthWays Home in Grand Center pedal the Energy Bike to light up the room.

news

Roughing It with Rough Science

This October, one of the Garden's own will take to the airwaves when local PBS affiliate KETC-TV Channel 9 broadcasts the BBC-produced reality show *Rough Science*.

Billed as the "thinking person's reality show," *Rough Science* takes a group of highly skilled scientists, drops them in a remote island location, and presents them with a series of challenges designed to test the practical side of their disciplines.

Ellen McCallie, tropical ecologist and Exhibit Coordinator for the Garden's Education Division, was one of five scientists selected for the team.

"I thought, 'Why not?'" says Ellen, when the BBC called to request a video tryout for an upcoming show on "the process of science and the real people who do it." After filming the first season on the Caribbean island of Carriacou, Ellen is enthusiastic: "I believe in the program. The essence of the program is that people are willing to try, it's the can-do attitude" of science despite the odds.

The program illustrates the scientific method as demonstrated by real people solving real problems. The challenges are tough—such as making a microscope or distilling water with only the most rudimentary of tools.

"It's scary being in front of the camera," Ellen admits. "We fail plenty, but sometimes we are absolutely brilliant."

Check out the show's UK website for more information: www.open2.net/roughscience.

Sundays, October 6 to December 8
10 to 10:30 p.m.
KETC-TV Channel 9

Library Consortium

The Andrew W. Mellon Foundation has awarded the Missouri Botanical Garden a generous grant to support the purchase and implementation of an online library system to be shared with the Missouri Historical Society and the St. Louis Art Museum.

The libraries of these three institutions will make up the St. Louis Research Libraries Consortium (SLRLC), a cooperative arrangement to collaborate on projects that provide enhanced access, control, and preservation for library and archival collections via a shared simultaneous on-line catalog.

W3TROPICOS

The Missouri Botanical Garden has received a generous grant from The Andrew W. Mellon Foundation to fund further development of W3TROPICOS, the largest and most widely used botanical nomenclature database (and first of its kind) in the world.

Featuring over 1.7 million specimen records and 40,000 images, W3TROPICOS is utilized by scientists worldwide. With the Mellon Grant, the Garden will install web-based user interfaces into the TROPICOS database. The enhanced interfacing will give Garden staff and researchers access to detailed botanical information before beginning an exploration of a particular area or plant species. While out in the field, researchers will also have the ability to input newly discovered information into the database or search the data-base for reference material.

Above: an image from the on-line resource database W3TROPICOS.

Weeds, Glorious Weeds!

On August 5, Dr. LeRoy Holm donated to the MBG Library 450 titles on the subject of the not-so-lowly weed. "Weeds cause a greater loss of food in agriculture than all other pests combined," says Dr. Holm. Researching this subject for over 40 years, Dr. Holm assembled a wealth of information concerning the ecological, economic, and social importance of weeds, and his efforts resulted in the World Weed Library, now part of the MBG collection.

Right: Lunaria annua, *Money or Silver Dollar plant, is the second most common weed in the world.*

PHOTO BY

Next Stop, Tanzania

by Kathy Hurlbert, Center for Conservation and Sustainable Development

Tanzania—think Lake Victoria, the Serengeti National Park, Mt. Kilimanjaro, and exotic Zanzibar off the east Indian Ocean coast—is the land where you can see the largest numbers of wildebeest, gazelle, antelope, and zebra on Earth. Its large game reserves are also home to elephants, hippos, crocodiles, and chimpanzees. And the great diversity of its landscapes and climates makes Tanzania's flora one of the richest in Africa.

True to its commitment to train young scientists in the countries where it works, the Garden created the Tanzania Botanical Training Programme (TBTP) in the late1990s. Now, thanks to support from the Garden's Center for Conservation and Sustainable Development, three promising graduates of the TBTP are attending the Forestry Training Institute at Olmotonyi to earn the professional certification they need to compete for jobs in forest resource management and conservation. In addition, a forest ranger who has worked with Garden botanists will get additional training at Olmotonyi to ensure his continued employment and advancement.

Lenin Festo, a member of the Haya tribe from the Lake Victoria area, started a native tree nursery in his village on his own initiative. He is working on his forestry certificate at Olmotonyi, as well as a college prep course.

Gabriel Simon Laizer is a Maasai from northern Tanzania. He has worked as a botanical collector for the United Nations Development Program's Cross Border Biodiversity project and as a forest assistant in the Monduli District.

John Amani Mlangwa (Amani means "peace"), a Pare from south of Mount Kilimanjaro, is known as the "Bee" for his high energy—he gets the hard jobs done fast. Since receiving training though TBTP, he has been a botanical collector in the Chome Forest Reserve.

Frederick Regnald Umilla, a Makonde from near the southern border with Mozambique, is the oldest of the group at 38. A forest ranger at Chome Reserve since 1988, he is a steady, highly motivated individual who has demonstrated great interest in plant taxonomy.

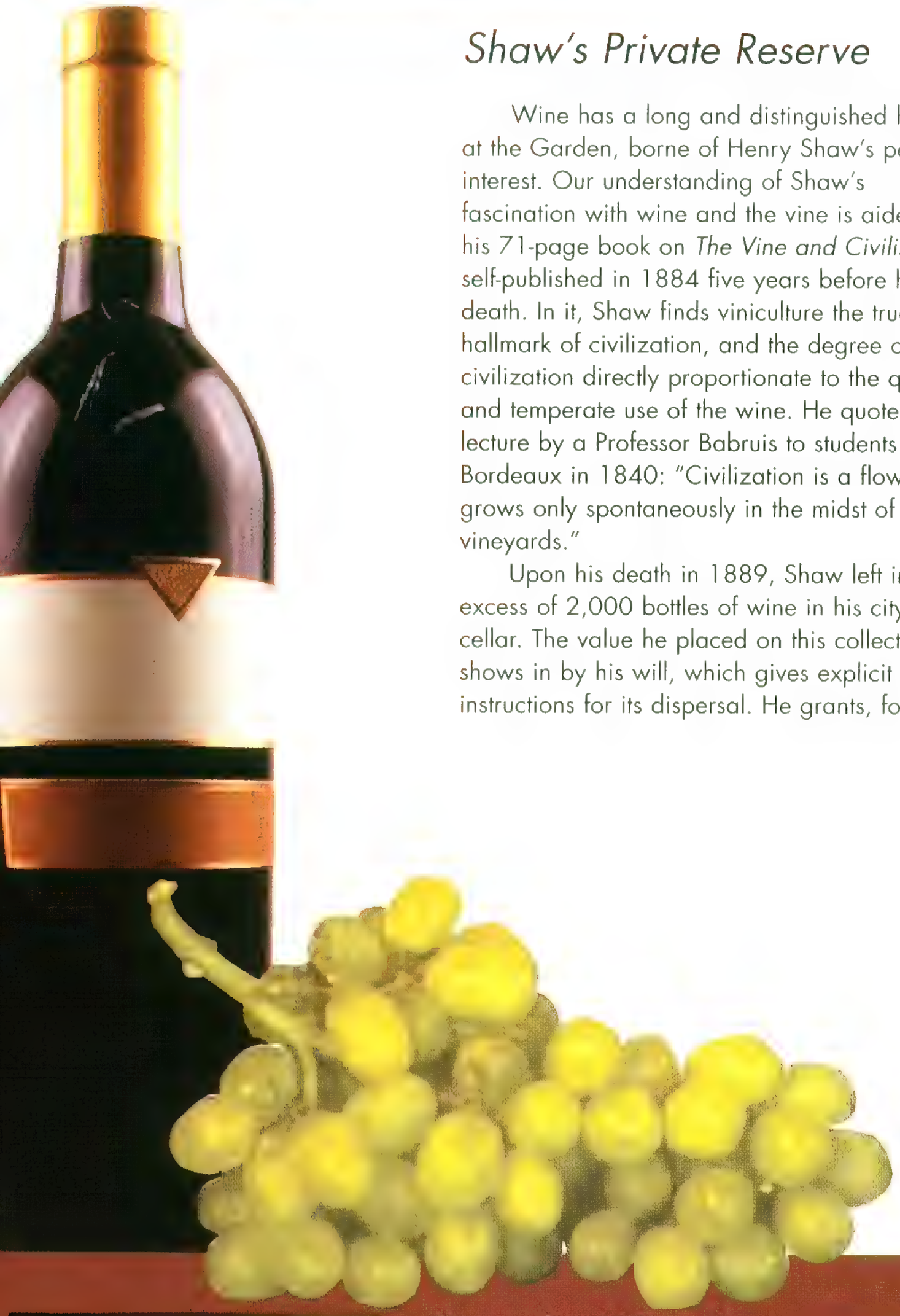
Roy Gereau has, during his 18 years of active involvement with the Garden's program in Tanzania, spent the equivalent of more than three years there. He rapidly became fluent in Swahili, the principal language of the country along with English. Roy helped train these Tanzanian students (and others), mentored them through jobs, and recommended them for additional training to build their careers in natural resource management.

Above left: Lenin Festo pressing Acacia drepanolobium *on lower slopes of Ketumbeine Mountain, with Emmanuel Minde (driver) watching.*

Above center: Left to right, Roy Gereau, Amina Nada (cook), Gabriel Simon, William Kindeketa, Dawson Byarugaba (forest ranger), Moses (driver), and John Mlangwa.

Above right: Gabriel Simon with Pare children at Kanza Village near Chome Forest Reserve.

Kemper Center



Shaw's Private Reserve

Wine has a long and distinguished history at the Garden, borne of Henry Shaw's personal interest. Our understanding of Shaw's fascination with wine and the vine is aided by his 71-page book on *The Vine and Civilisation*, self-published in 1884 five years before his death. In it, Shaw finds viniculture the true hallmark of civilization, and the degree of civilization directly proportionate to the quality and temperate use of the wine. He quotes a lecture by a Professor Babruis to students of Bordeaux in 1840: "Civilization is a flower that grows only spontaneously in the midst of vineyards."

Upon his death in 1889, Shaw left in excess of 2,000 bottles of wine in his city house cellar. The value he placed on this collection shows in by his will, which gives explicit instructions for its dispersal. He grants, for example, "two dozen of my best sherry" to Tower Grove House architect George I. Barnett, and another "two dozen port or claret wine as he may select" to his lawyer.

Grow Local

The Garden inventory of 1854 shows us a number of grapevine specimens in the hothouse of *Vitis vinifera*—the European wine grape. However, by 1860, an account book shows Shaw's purchase of the more locally suitable Concord, Delaware, and Catawba grape vines.

"Catawba and Norton's Virginia," wrote Shaw, "are generally considered the best grapes for wine making in Missouri." By the time of his death, Shaw not only grew local stock, but actively collected local vintages. A notation on the inventory list on lot 15 of his wine cellar reads "9 bottles Virginia Seedling Claret all qts."

The grape then known as Norton's Virginia Seedling is today shortened to Norton. Wine from this grape gained high marks at various world wine competitions in the latter part of Shaw's century. True to his comments, the Norton is still today one of the best wine grapes grown in Missouri. And so, it's fitting that his Garden, created "for the enjoyment of the public," include this grape still so important to the Missouri wine industry.

Save the Wines!

by Michael Long, MBG researcher and Engelmann biographer

Henry Shaw's botanical advisor George Engelmann played an important and little-known role in rescuing the French wine industry. In the 1870s, French vineyards came under attack by a small insect, *Phylloxera vastatrix*. Growers observed that certain imported American vines resisted the pest, and the French government dispatched a scientist to St. Louis to consult with the Missouri state entomologist and with Engelmann, who had studied American grapes since the 1850s.

The gentlemen verified that certain living American species had resisted *Phylloxera* for nearly 40 years. In addition, *Vitis riparia*, a wild vine of the Mississippi Valley, did not cross-pollinate with less resistant species, the cause of previous grafting failures. Engelmann arranged to have millions of shoots and seeds collected and sent to France, where the species proved very successful. His work is a vivid illustration of the importance of preserving the genetic resources found in wild species of plants.

And so, a toast to Engelmann and Shaw as you raise that glass of Bordeaux this fall!

Caption: Henry Shaw carved this curio box in wood from his boyhood church.

PHOTO BY BRYAN RECKAMP

Kemper Center Demonstration Vineyard

This year, a new demonstration garden of Missouri wine grapes was installed at the Kemper Center for Home Gardening. The vineyard shows three trellising systems and includes grape varieties that are commercially significant in the Missouri wine industry. There's also a luscious seedless grape variety (Reliance) suitable for the St. Louis climate.

"The vines are already looking good," says June Hutson, Supervisor of the Home Demonstration Gardens, "It will take about three years before we see any grape production, but home owners can get great ideas for backyard vineyards of their own."

The vines were donated by Meramec Vineyard and St. Francois Vineyards Nursery, and the trellis system installed by staff with assistance by Master Gardener volunteer Don McQueen.

Wine-ology 101

The Adult Education programs at the Kemper Center for Home Gardening feature several classes on wines. This fall, there are four: the Marriage of French Wine and Food, the Elegance of White Wine, Fine Wines for $10 and Less, and Wine Basics. Call (314) 577-9441 for registration information, or visit our website: www.mobot.org. Classes fill up quickly and Members receive a discount, so call soon.

The key to Shaw's wine cellar sits atop copies of one of his only published works, The Vine and Civilisation, *a slim history of viniculture. Photos by Bryan Reckamp.*

PHOTO BY JACK JENNINGS

Seiwa-En Turns 25

By Kent Bunting
Visitor Sevrices

This year marks the 25th anniversary of the dedication of the Missouri Botanical Garden's famed Japanese Garden. In the 1960s, the St. Louis Chapter of the Japanese American Citizens League began raising funds to build a garden to celebrate their cultural heritage. They approached the Garden's then-new Director, Dr. Peter Raven, in 1972 with the idea of sponsoring the creation of such a garden at MBG. Five years and 1.2 million dollars later, the result was Seiwa-En, the largest and finest Japanese Garden in the United States.

The dedication ceremony on May 5, 1977 attracted the largest crowds of any event at the Garden up to that time, and was attended by representatives of state, local, and national governments, including the Japanese Ambassador to the United States.

Landscape architect Koichi Kawana said that the Japanese Garden was created as a result of *wa*, or "harmony," between the people of Japan and the United States. In the garden, one can sense this harmony among nations, as well as a deep harmony with nature. As *Seiwa-En* enters its second quarter of a century, we invite you to come experience the harmony for yourself.

calendar

Continuing

It's a Great Garden Adventure!
Enjoy one of four self-guided tours through the Garden—designed for fitness, walking with inquisitive children, strutting with the stroller, or even wheelchair tours. Included with regular Garden admission or Membership.

Now to Sept. 2:
Japanese Festival continues.
[illegible]
and under.

Now to Sept. 6:
Japanese art exhibition. R[illegible]

Now to Oct. 6:
David Rogers' BIG BUGS. See p. 15 for details. 9 a.m. to 5 p.m. BH.

Now to Oct. 26:
The St. Louis Master Gardeners will offer gardening information at the Clayton Farmers' Market, each Saturday from 8 a.m. to noon.

Now to Dec. 5:
Fall classes and walks for adults and families at the Shaw Nature Reserve in Gray Summit, MO. For information call (636) 451-3511.

Now to Dec. 14:
Fall classes and tours for adults and families. Classes are held in a variety of Garden venues. For information, visit www.mobot.org/gardeninghelp or call (314) 577-9441.

September

Sept. 1:
Author Richard W. Bender will do a [illegible] demonstration and sign copies of his book *Herbal Bonsai*. 2 p.m. GGS.

Sept. 1–2:
Author Carol Strangler signs copies of her book *The Craft and Art of Bamboo*. Sun. and Mon., 11 a.m. GGS.

Sept. 2:
Labor Day. Last day of the Garden [illegible]

Volunteer Open House.
Learn more about the wide variety of volunteering at the Garden at this instructive information fair.
Sept. 4, 10 a.m. to 6 p.m. RC.

Sept. 7:
Butterflies for Beginners. Learn to identify common local butterflies and the plants they prefer on a walking tour. Registration required. Please call (314) 577-9443. 10 a.m. to noon. RC, KC.

Sept. 7:
BIG BUG crafts. Using magnets, painted [illegible] foam models. 11 a.m. to [illegible]

Sept. 8:
"Chefs in a Garden" event to benefit Gateway Greening. Tickets are $100 per person. Call (314) 577-9484 for details.

Sept. 11:
Observance in memory of the victims of Sept. 11, 2001. The Rev. Earl E. Nance Jr., president of the St. Louis Metropolitan Clergy Coalition, and Dr. Peter Raven, will speak. Noon. Garden grounds near *The Sole Proviaer* statue and oak tree planted in the victims' memory.

***Sept. 11.**
Members' Day. Photo Shoot with Garden [illegible]

Sept. 11 to Nov. 6:
"Pharaoh's Harvest" photography exhibit [illegible]

Sept. 12:
[illegible] Edgar Anderson [illegible]
Kim Kleinman will give an informal talk and [illegible] footage of Dr. Edgar Anderson, a brilliant botanist and unique character in the Garden's history. 4 p.m. MC

Sept. 14:
Butterfly Gardening. Whether [illegible] creating a backyard garde[illegible] noon. BH.

Sept. 15:
The secret lives of BIG BUGS through the eyes of an entomologist. Join Mark [illegible] Collections Manager and Curator of Butterflies for a walk. 10 a.m. to 11 [illegible] BH.

Sept. 14–15:
Gardeners of America show. Sat., noon to 5 p.m., Sun., 9 a.m. to 5 p.m. RC.

Sept. 18:
[illegible] Butterfly." Children (ages 4–5) dress as native butterflies while they search for host plants and sip "nectar." Call for [illegible] $8 for [illegible]

Sept. 19:
Benefit for Tower Grove House. See [illegible] details [illegible]

Sept. 20:
Butterflies for Beginners. [illegible]

T-shirt Day

Free admission for anyone wearing a T-shirt advertising a Missouri Botanical Garden public event such as the Japanese Festival, Whitaker Music (Jazz) Festival, or Best of Missouri Market. Prizes awarded for the oldest T-shirt, Members, and attendance.

Sept. 14
9 a.m. to 4 p.m.

They're here...

The 2003 Missouri Botanical Garden Calendar with photographs by Jack Jennings will be available for purchase at the Garden Gate Shop in mid-September. Proceeds support the Missouri Botanical Garden.

Sept. 21:
[illegible]

Wing Ding 2002. See page 15 for [illegible]

Sept. 24:
[illegible] Garden." Greenstein [illegible] Frank Cabot lectures on [illegible] Vents, his private garden in Que[illegible] 4 p.m. Shoenberg Aud. RC.

Sept. 25–29:
Five Day Fall Sa[illegible] Shop. Members save 20% on a merchandise with additional discounts on select MBG Press B[illegible] 5:30 p.m. GGS.

Sept. 28:
"Rhapsody in Bloom." Presented by KFUO FM and MBG, light classical music and contemporary dance. 10 a.m. to 3 p.m. Locations throughout the Garden.

Sept. 28–29:
Greater St. Louis Dahlia Society show. Sat., noon to 5 p.m. Sun. 9 a.m. to 5 p.m. RC.

Fall Festival at Faust Park Folk Festival and BugOut! Trivia Night. See page 7 for details. BH.

BIG BUG Crafts. Miaratina monarch Inspire Monarch Crown headbands and Butterfly toys. 9 a.m. to 3:30 p.m. BH.

[illegible] Mark Deering, Collector and Curator of Butterflies will make tempura and Ca[illegible] battered mealworms and crickets with various sauces. Samples will be offered [illegible]

# of events

October

Oct. 5–6:
Eleventh Annual Best of Missouri Market. See pages 4–5 for details.
9 a.m. to 5 p.m. Garden grounds

Local ceramic artist Yael Shomroni explains her process and inspiration during two days of demonstration. Sat. and Sun., 10 a.m. to 2 p.m. GGS.

Help put the BIG BUGS to Bed! Kids who show up in pajamas will receive $1 off admission for the final weekend of David Rogers' BIG BUGS exhibit. 9 a.m. to 4 p.m. BH

Oct. 5:
BIG BUG Crafts. Kids create their own versions of the creepy-crawly spider. Eight-legged wonders inspire great headbands and pom-pom creatures. 11 a.m. to 2 p.m. BH.

Oct. 9:
Kent Bunting presents an informal talk about his research on the Japanese Garden. 4 p.m. MC.

Oct. 12:
A Hurdy-Gurdy Faire!
Old-fashioned street organ music will be performed throughout the Garden grounds by more than 30 members of the Gateway Chapter of the Automatic Musical Instrument Collector Association (AMICA). 10 a.m. to 4 p.m.

PHOTO BY SENTINEL/BRIAN FORDE

Oct. 13:
Harvest Festival. See page 8 for details.
11 a.m. to 5 p.m. SNR.

***Oct. 16.**
Members' Day: Fall Color Tour at Shaw Nature Reserve. 10 a.m. to noon. SNR. In conjunction, the Garden Gate Shop will offer Members an additional 5% off all Missouri books and nature guides

Lecture and book signing by Thomas Pakenham, award-winning historian and author of *Remarkable Trees of the World* 4:30 p.m. Shoenberg Aud. RC

Oct. 18:
Tour of the EarthWays Home at Grand Center. Call (314) 577-0220. EH

Oct. 19:
Fall Energy Fair. See page 9 for details.
10 a.m. to 3 p.m. EH.

Fifth annual celebration of Latin American culture. See page 6 for details. 10 a.m. to 5 p.m. Garden grounds.

Oct. 26–27:
Greater St. Louis Daffodil Society sale
9 a.m. to 5 p.m. RC

Orchid Society of Greater St. Louis show and sale. 9 a.m. to 5 p.m. RC

Mid-America Regional Lily Society sale.
9 a.m. to 5 p.m. RC.

Key
All events are free with admission or Membership unless otherwise noted.

BH = Butterfly House,
CA = Cohen Amphitheater
CL = Climatron
EH = EarthWays Home
GGS = Garden Gate Shop
JG = Japanese Garden
KC = Kemper Center
MC = Monsanto Center
RC = Ridgway Center
SNR = Shaw Nature Reserve
SP = Spink Pavilion

* denotes a Members only event

Upcoming

Sept. 9 to Dec. 31:
Missouri Botanical Garden 2003 calendar display. 9 a.m. to 5 p.m. RC.

Nov. 7:
Biographer Michael Long presents an informal talk about the life of George Engelmann, Shaw's scientific advisor, and his lasting influence on the Garden's scientific programs. 4 p.m. MC

Nov. 9–10:
Wizard Weekend. Herbology, potion making, special tours and fun for wizards and "muggles" alike! Breakfast by reservation only. Hours and details to be announced.

Nov. 15:
Tour of the EarthWays Home at Grand Center. Call (314) 577-0220. EH

Nov. 20–Jan. 1:
Holiday wreath exhibition. Some wreaths are sold through a silent auction, with proceeds benefiting the Missouri Botanical Garden. 9 a.m. to 5 p.m. RC

Nov. 24:
"Hanukkah: Festival of Lights" is a traditional Jewish holiday celebration that includes festive music and a menorah-lighting ceremony. Stories of Chanukan are told by puppets, storytellers and musicians throughout the day. An Israeli shuk (market) with an array of Chanukan merchandise, cookie decorating, and children's craft workshops round out the festivities. 11 a.m. to 5 p.m. RC

Nov. 27–Jan. 1:
"Animals On Parade," annual holiday flower show. See thousands of colorful seasonal plants and flowers including poinsettias, cyclamen, begonias, gloxinias, euphorbias, amaryllis, chenille plants, rosemary, and many others. Great photo opportunities! 9 a.m. to 5 p.m. Extra fee applies. RC.

Dec. 10, 12, 16, 18:
Holiday Luncheons given by the Tower Grove House Auxilliary. Times and ticket prices to be announced. Reservations required. Call (314) 577-5150

Missouri Botanical Garden
4344 Shaw Boulevard
St. Louis, MO 63110

Hours
The Garden is open every day except Christmas, 9 a.m. to 5 p.m., and 9 a.m. to 5 p.m. on Mondays from Memorial Day to Labor Day. Parking is free.

Admission
- Free for Members
- General admission is $7 ($3 for St. Louis City/County residents)
- Senior admission (65+) is $5 ($1.50 for St. Louis City/County residents)
- Children age 12 and under—free
- Garden admission is free to St. Louis City and County (ZIP) residents the first Tuesday and Saturday throughout the year, except during Japanese Festival and Best of Missouri Market
- Special events may require a small additional fee.

Information
For 24-hour, prerecorded information, call (314) 577-9400. Outside the (314) area code, call toll free 1-800-642-8842.

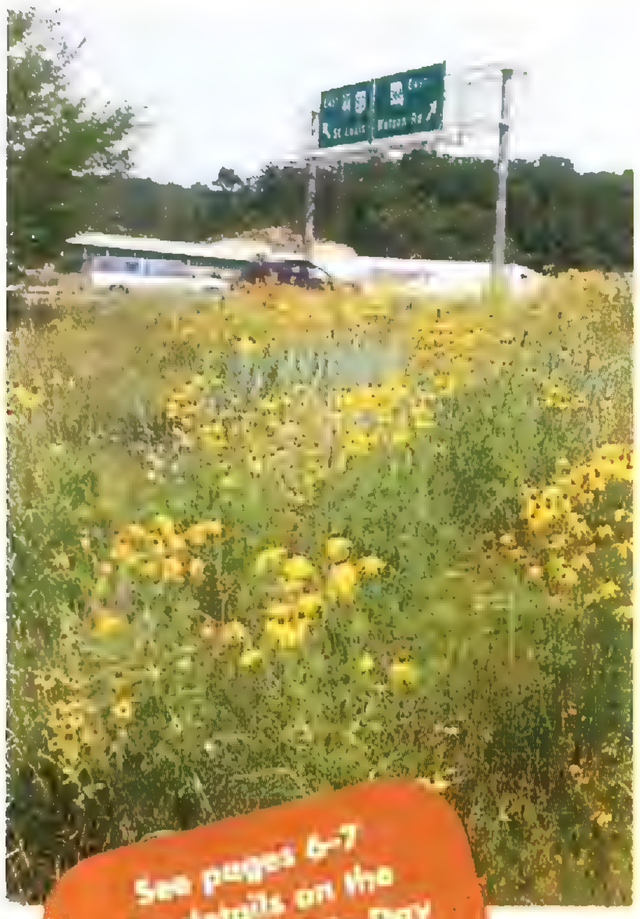
Tours, Education, Fitness
Walking tours led by Garden Guides leave from the ticket counter at 1 p.m. daily throughout the year (except during Japanese Festival and Best of Missouri Market).

Guided tours of Tower Grove House, Garden founder Henry Shaw's 1851 country home, are available daily, between 9:45 a.m. and 4 p.m. Nominal extra charge. The Tower Grove House is closed each January for renovation.

Hands-on learning activities are presented each Saturday throughout the year from 10 a.m. to 2 p.m. These fun activities are tailored to fit the age range of the audience and utilize toys, puzzles, and games to help visitors learn about plants and their environment. Stop by the Interpretive Center or on the Garden grounds.

Garden walkers' breakfasts, in cooperation with the American Heart Association, are offered every Wednesday and Saturday at 7 a.m. to encourage fitness walking. A light breakfast is available for purchase in the Garden Cafe starting at 7 a.m.

Garden at large



See pages 6–7 for details on the biennial Prairie Day and the brand-new Harvest Festival at the Shaw Nature Reserve this fall.

Prairie Restoration Pays Off

For several years, a group of individuals, organizations, and public agencies, including the Shaw Nature Reserve, have been working together to re-seed existing acres of mowed fescue in tallgrass prairie and to seed prairies at new construction sites along the Henry Shaw Ozark Corridor, a 24-mile designated area along I-44.

The prairie project will enhance the beauty of this scenic corridor, and with it, the potential for increased tourism. Native grasses help reduce erosion due to storm water runoff, and they increase air quality and wildlife habitat. Prairie has the added benefit of cost reduction. Tallgrass prairie decreases the amount of mowing, saves money, and increases biological diversity and public interest.

The success of this program has led to a recent grant of $204,000 from the Federal Highway Administration to plant more prairie at I-270 and Highway 141.

"It's exciting to think how much has been accomplished by this partnership and this group of dedicated volunteers," says Shaw Nature Reserve's Scott Woodbury. Volunteers collect seed and have planted a number of the projects and the Missouri Department of Transportation maintains them with annual mowing. For more information, call (636) 451-3512.

PHOTO BY SCOTT WOODBURY

Shaw Nature Reserve

Established by the Missouri Botanical Garden in 1925, the Shaw Nature Reserve is in Gray Summit, MO, 35 miles west of St. Louis on I-44 (Gray Summit exit 253). In addition to the Whitmire Wildflower Garden, the 2,400-acre reserve is also home to the restored Bascom House (1879) and fourteen miles of hiking trails. Grounds are open daily 7 a.m. to one-half hour past sunset. For information, call (636) 451-3512.

Henry Shaw Ozark Corridor Designated

In Henry Shaw's birthday month of July, Missouri Governor Bob Holden signed into law legislation that officially designates the 24-mile portion of I-44 between Shaw Nature Reserve and Powder Valley Conservation Nature Center as the Henry Shaw Ozark Corridor (HSOC).

The HSOC comprises 40 miles of the Meramec River Greenway, and seven communities within three counties, serving over 92,000 people with an economic base in excess of $1billion. The aesthetic, economic, and natural assets of the Corridor include numerous state, county, and city parks and conservation areas.

The HSOC is a partnership among residents, businesses, nonprofit organizations, state, county, and municipal governments, and interested citizens dedicated to its mission: Protecting and enhancing the Corridor's natural heritage—the Ozarks—while promoting sustainable economic and community activity. SNR staff members John Behrer and Scott Woodbury are both active members of the HSOC Board of Directors. Check out the website www.hsoc.org for details.

Wing Ding 2002 at the Garden Terrace

The third biennial Wing Ding to benefit the Sophia M. Sachs Butterfly House is on the calendar for Saturday, September 21. The gala will raise funds to build a much-needed greenhouse for the Butterfly House, where staff can propagate and recover host and nectar plants that sustain a butterfly's life cycle. Mark your calendar now.

Everything at Wing Ding 2002 will be "Simply The Best!"

Guests will preview the new open air pavilion on the Garden Terrace; dine on sumptuous delicacies by Ces & Judy's Catering, dance to the sweet sounds of The Original Knights of Swing. High-bidders will take home extraordinary, one-of-a-kind treasures at the auction, including original art and jewelry, a sculpture by Bob Cassilly, a Silversea cruise for two, a one-of-a-kind Victorian mini-mansion, and the wine connoisseur's dream—a fine collection and an evening at the Ritz Carlton Wine Room for you and nine guests.

The event is being sponsored by: Arthur & Helen Baer Charitable Foundation, Edward Jones , Emerson Electric, Maritz Inc., Laclede Gas Company, Northern Trust Bank, St. Louis Home & Lifestyles. Call (314) 361-3365 for more information or visit the website: www.butterflyhouse.org.

Wing Ding 2002
Saturday, September 21
7 p.m.
$250 per person
Butterfly House

Wing Ding 2002 takes place at the just-completed new Garden Terrace with an open-air pavilion. Ideally situated near the large reflecting pool, it showcases both the native habitat and the "crystal" facade of the Tropical Conservatory. The Pavilion can be enclosed to accommodate up to 200 guests for a sit-down dinner party and will be available for private evening events April through October. For more information on reserving the Garden Terrace, call (314) 361-3365.

PHOTO BY JACK JENNINGS

Butterfly House

A division of the Garden since 2001, the Sophia M. Sachs Butterfly House features butterflies in free flight inside a glass conservatory as well as outdoor habitats. Located in Faust Park, Chesterfield, MO, the Butterfly House is open daily 9 a.m. to 4 p.m. (5 p.m. in summer). For information, call (636) 530-0076.

PHOTO BY MARK DEERING

Pictured above: (top) D. Williams, (bottom) A. and D. Waks.

BIG Bugs is a BIG Success

David Rogers' Big Bugs installation at the Sophia M. Sachs Butterfly House is being called a super success. "Our attendance is up over twenty percent this month," says Butterfly House Director Joe Norton, "People are amazed by these giant versions of insects and arachnids, but they also appreciate them as works of art."

Inspired by trees and the natural world, artist David Rogers fashions his garden sculptures of beneficial insects and spiders using combinations of natural materials on an enormous scale. It's hard to miss a 25-foot long ant, a dragonfly weighing 150 pounds with a 17-foot wingspan, and other enormous creatures.

"Insects are perceived as pests when really they play an important role in the garden," notes Rogers. "Bringing bugs to a large scale amazes everyone, and we learn we can't take them for granted anymore."

Swarms of special events are planned for children and adults. Touch carts let visitors take a closer look at some life-sized bugs. Children will be able to collect Bug Trading Cards to learn more about their favorite bugs.

The show, which includes nine big bugs at the Butterfly House and one enormous ant at the Garden, opened July 15 and runs through October 6, and is sponsored by the Dana Brown Foundation and Coca-Cola.

members

Members' Days

PHOTO BY JACK JENNINGS

Early Morning Photo Shoot with Jack Jennings

Meet in Shoenberg Auditorium for a brief slide presentation, then head into the Garden with your camera and our own Master Photographer of the Garden, Jack Jennings. Jack has been photographing the Missouri Botanical Garden for over 20 years, and his work is featured in the Garden's annual calendar. Practicing the meditative art in the early morning Garden will renew your belief in the world's beauty.

Photo Shoot
Wed., Sept. 11
7:30 a.m.
Shoenberg Aud.

PHOTO BY JACK JENNINGS

Fall Color Tour at Shaw Nature Reserve

Enjoy the glorious colors of autumn at the Shaw Nature Reserve in Gray Summit. Visit the tallgrass prairie and the wetland areas. Check in at the Visitor Center, then follow the Loop Road to historic Bascom House. Here we will meet our guides for a half-mile hike to the recently renovated Maritz Trail House. After light refreshments at the Trail House, additional self-guided hiking on the Reserve's 14 miles of trails will be available.

Fall Color Tour
Wed., Oct. 16
10 a.m. to noon
Shaw Nature Reserve

Members' Days are presented exclusively for Garden Members and their guest. Seating is limited and is on a first come, first served basis. Members receive free tram rides, special discounts in the Garden Gate Shop, and 10% off in the Garden Café.

See page 5 for your Best of Missouri Market special opportunity.

PHOTO BY ELIZABETH MCNULTY

Behind the Scenes

Robin Roberts became Manager of Member Programs in July 2001. In her first year here, she's worked hard to raise the Garden's Membership roster to even higher levels.

"I like the people, the mission. I like everything about the Garden," says Robin. "It's a very stimulating work environment. And of course, there's our Membership. I truly believe we have the most dedicated Members of any local institution."

Robin cites the new Membership Services Desk in the Ridgway Center as a particularly successful example of the loyalty and dedication of Garden Members. "We've planned for years to open such a desk, but we couldn't have done it without our devoted Membership Desk volunteers."

A native St. Louisan, Robin lives with her husband in Shrewsbury. They have two children.

Thank You!

Thank you to everyone who made our Garden Tour 2002 such a success, especially our sponsors: Edward Jones, Gilberg Perennial Farms, Gringo Jones Imports, Maxwell Homestead Greenhouse, Sherwood's Forest Nursery and Garden Center, Sugar Creek Gardens, and Sunset Plantland.

A big thank you to our wonderful Garden Tour co-chairs: Ann Bowen, Ann Case, and Carol Squires.

Membership Benefits

Free Admission to the Garden, including the Garden Café, Tower Grove House, and Shaw Nature Reserve for two adults and all children under age 18 for one year. Discounts on admission to Garden public events.

Free Publications including the *Bulletin*, 6 issues a year filled with information and activities at the Garden, Shaw Nature Reserve, and Sophia M. Sachs Butterfly House plus home horticulture advice from the experts at the Kemper Center for Home Gardening.

Flower Show Parties
For Members only, previews of the annual Holiday Flower Show and Orchid Show.

Monthly Members' Days
Special programs presented exclusively for Garden Members and their guests feature free tram rides, 10% off in the Garden Café, and special discounts in the Garden Gate Shop.

Garden Gate Shop
The Garden Gate Shop presents annual spring, fall, and holiday sales with 20% discounts for Members only.

Discounts
Members receive 10% off all purchases in the Garden Gate Shop, plus special rates on selected educational courses.

Members' Travel
Special trips explore public and private gardens around the world.

Reciprocal Admission
to over 150 selected botanical gardens around the country.

Discounted Subscription Rate
for *St. Louis Homes & Lifestyles* magazine.

development

PHOTO BY TIM PARKER

Let's Hit the Bricks

It's time once again for our annual brick donor reception, celebrating the contribution of donors who have given bricks in the Members' Entry Court at the Kemper Center in the past year. Enjoy drinks and hors d'œuvres to the elegant sounds of the Blue Light Jazz Band. Remarks by Garden Director Peter Raven. Don't be left out: order your brick today. All brick donations support the Missouri Botanical Garden.

Engraved clay bricks ($300 each)
Bronze signature bricks ($1,000 each)

Payments may be made by cash, check, or MasterCard/Visa. Order forms are available at the Memership Services Desk in the Ridgway Center, at the Kemper Center for Home Gardening, or on the website: www.mobot.org. For more information, call (314) 577-0874, or email: kathleen.kellerstrass@mobot.org.

Brick Donor Reception
Mon., Sept. 23, 5–7 p.m.
Members' Entry Court
Kemper Center for Home Gardening

PHOTO BY ANDREW LAWSON

2002 Greensfelder Medal Recipient

On Tuesday, September 24, Frank Cabot will become the 12th recipient of the Greensfelder Medal. Established in 1980, the Greensfelder Medal honors individuals who have made significant contributions to landscape, garden and park planning, and design for urban improvement.

Modestly self-described as a "horticultural enthusiast," Frank Cabot has developed spectacular gardens the world over. He holds leadership positions in horticultural organizations in both the U.S. and Canada and is the founder and chairman of The Garden Conservancy, a non-profit organization devoted to the preservation of exceptional private gardens in North America.

Cabot "gardens" in his private-turned-public venues: Stonecrop Gardens in Cold Spring, New York, and Les Quatre Vents in Quebec.

PHOTOS BY TIM PARKER

Maritz Trail House Renovated

In July, work was completed on the Maritz Trail House at Shaw Nature Reserve. Named for long-time Trustee and friend of the Garden, William E. Maritz, who passed away on February 26, 2001, this beautiful and historic structure was completely restored with donations made to the Garden in his memory.

Built in 1942, the trail house needed a substantial renovation. Structural improvements upgraded plumbing and heating-and-cooling efficiency, and made the structure more accessible. Hikers, picnickers, and the many educational groups using the house will all benefit. And in a spot of whimsy that juvenile visitors particularly enjoy, the new textured concrete floor bears the impressions of leaves and animal tracks—including turkeys, deer, and bobcat.

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The Corporate Partners program strengthens your company's relationship with the Missouri Botanical Garden and offers many privileges. We recognize below corporations who have recently joined, renewed, or upgraded their Corporate Partners Membership. For information, please call (314) 577-9513 or email: jamie.cox-robertson@mobot.org.

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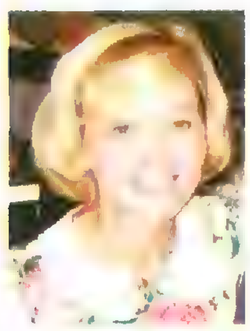
Greening the Golden Years

The Samuel D. Soule Senior Center at the Garden has received a generous contribution from the E. Reuben and Gladys Flora Grant Charitable Trust, Commerce Bank, and Trustees N.A. & Eric F. Tremayne to found a new program for seniors.

Greening the Golden Years will be an outreach program bringing monthly horticultural activities to senior facilities in the St. Louis and Illinois area. This program is based on creative and stimulating activities that enrich the physical, intellectual, and spiritual lives of senior participants through interaction with living plant material. Activities include plant propagation, summer gardening, flower pressing, tree identification, and much more. Included in the package for each facility are two field trips to the Garden.



by Sandy Young,
Education Division

Experiencing plant-nurturing activities transforms care-recipients into caregivers while giving participants a sense of community, competency, and achievement. Greening the Golden Years also serves senior citizens who are less mobile or less financially able to access the Missouri Botanical Garden by bringing the Garden to them. Thanks to the contribution from the E. Reuben and Gladys Flora Grant Charitable Trust, Commerce Bank, and Trustees N.A. & Eric F. Tremayne, approximately 250 senior citizens will be able to participate in this exciting new program

For eight years, the Samuel D. Soule Senior Center has offered programs for senior citizens at the Garden. Usually held on Wednesdays at 10 a.m., activities range from walking tours, to teas at Tower Grove House, to flower arranging. The Center served over 388 seniors in the 2002 spring semester, and the fall/winter semester begins in September.

Dedicated volunteers for the Center also present slide show presentations to senior facilities. Subjects include "Mr. Shaw and his Garden," "Gardens Around the World," and "Missouri Wild Flowers," to name just a few. This program has served over 1,396 individuals this year.

For more information on these new and existing programs for seniors, please call Sandy Young at (314) 577-0270.

PHOTOS BY JENNIFER WOLFF

Above: Ladies at the Charless Home in St. Louis mix hand lotion scented with essential oils as part of the "Fun with Fragrance" program.

Left: Seniors participating in the herbal bouquet and holiday wreath-making classes. The activities are aromatic as well: Sandy's father Don Young enjoys the scent of fresh sage.

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MAY–JUNE 2002

For information on making a gift to the Tribute Fund, please call the Development Office at (314) 577-5120.

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By leaving a bequest to the Garden, you create a legacy that will benefit others for generations to come. If you have already included the Garden in your estate plans, we hope that you will share this information with us. We would like to express our gratitude and welcome you into the Heritage Society. Of course, your wishes for anonymity are respected.

Please call Judi Schraer, planned giving officer, at (314) 577-9455 for further information and a complimentary brochure.

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Occasional errors of typography, spelling, and omission may occur. We endeavor to correct these errors at the earliest possible opportunity. For information, please contact Ann Hancock at (314) 577-0200 or e-mail amyhancock@mobot.org.

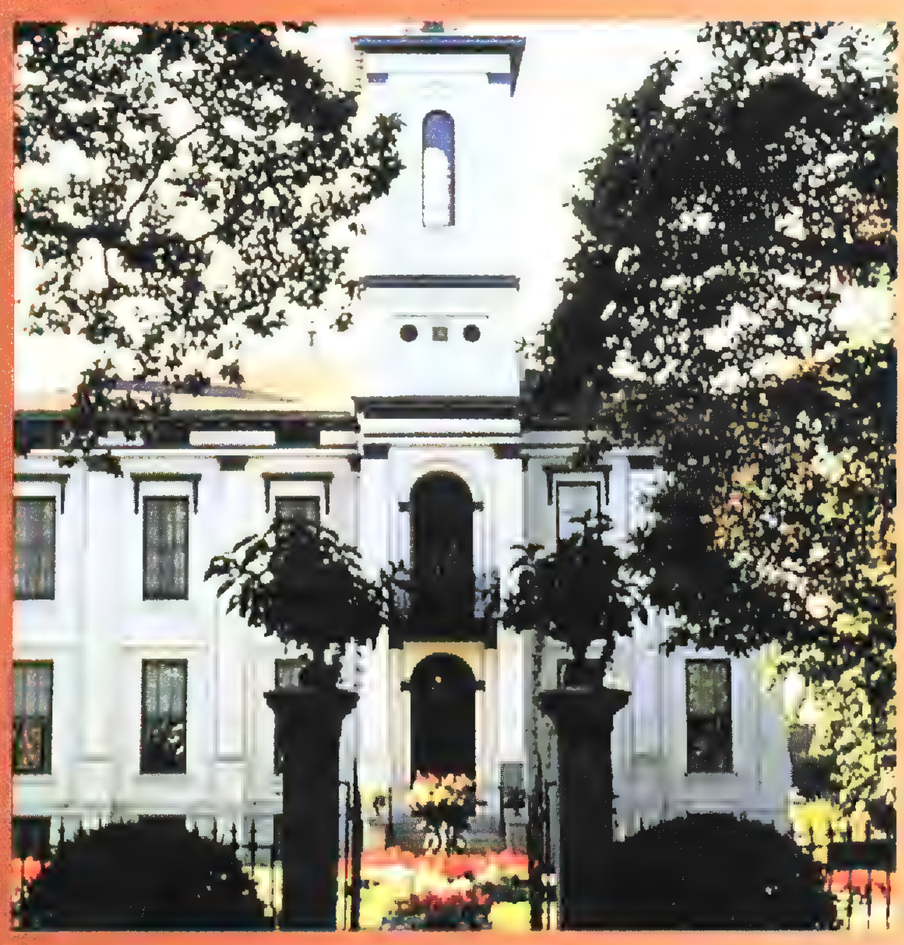

PHOTO BY JACK JENNINGS

Tower Grove House Benefit

The Su-Ellen Shop at 8119 Maryland Avenue in Clayton will host its fourth annual benefit featuring a preview of fall fashions. Please join us for hors d'oeuvres, beverages, music, and a fashion show sponsored by the Tower Grove House Auxiliary. Honorary Chairperson is Peg Grigg. Call (314) 862-5050 for reservations.

Thurs., Sept. 19
5:30 to 8 p.m.
Tickets: $35

PHOTOS BY MBG PUBLICATIONS

the Garden Gate Shop

Harvest Bounty

In a season of plenty, reward the cooks on your list with the Gate Shop's many gourmet items for the home chef. Or take a Garden cooking class at the Kemper Center, then celebrate your new skills

Best of Missouri Market

(October 5–6)

During the two-day Market extravaganza, don't forget to check out the Garden Gate Shop too. From small-batch jams, sauces, and flavored oils; to unique containers, books, and props; you'll find all the extras to complete your gift baskets.

Garden Gate Shop
Missouri Botanical Garden
4344 Shaw Boulevard
(314) 577-5137
Open daily 9 a.m. to 5:30 p.m.
All proceeds from the Garden Gate Shop benefit the Missouri Botanical Garden.

Missouri Botanical Garden Library
3 1753 00293 8436

New Faces

PHOTO BY ELIZABETH MCNULTY

Jan Simons joined the Garden in July as Director of Retail Services. With over 25 years experience as a retail buyer and manager—first at Saks Fifth Avenue, then Edison Brothers, and finally the May Company—Jan brings an exuberance to her role.

"I'm thrilled to be at the Garden. It's a dream retailing job for me," says Jan. "As an avid backyard gardener, I've been a Member of the Garden for 20 years—and I love retail. I'm very grateful for this opportunity to join my two passions."

A resident of St. Louis for 25 years, Jan considers herself "almost native" and has lived most of those years in the Garden's nearby neighborhood, Tower Grove East. She grew up in Warren, Ohio, and returns frequently to visit her parents and brother and sister-in-law.

members' entry court

Bricks donated to the Members' Entry Court at the William T. Kemper Center for Home Gardening between June 1 and July 31, 2002.

bronze signature bricks

Jack and Dorothy Hitt
The Children of Jack and Dorothy Hitt
Richard R. Walsh
The Friends and Family of Richard R. Walsh

engraved clay bricks

James M. Anthony
Amy Behrens
Frank Arnoldy, Master Gardener
From the CBC Community
Dale Clemons
The Family of Dale Clemons
Ceil Cohen
Abe and Isabelle Schultz
Jeff and Susan Gitt
Dan and Odi Schultz
Steve and Lynn Schultz
Mary and Herb Cooper
Steve and Sharon Byrne
Michael Deleon and Ancil Moore
Ancil Moore
Geno and Winifred Distefano
Ted and Pat Heitmeyer
Jack and Elinor Eidelman
David and Andy Eidelman
L. K. Gill / Shirley Bohning
Ted and Pat Heitmeyer
Helen Baldwin Guptill
Janet Guptill
Angie Hermann
The Family of Jim and Rosie Schmelzle
Herb and Nora Fallert
The Family of Marv and Loretta Basler
Marie Hermann
Rowland, Marilyn, Scott, Amy, Jodi, and Tammy Hermann
The Family of Paul and Marilyn Hermann
Vince and Janet Hermann
Janet Hornkohl
David Hornkohl and Patty Oswald
Mary and Helen Krueger
Kevin Carpenter
John and Salome Mahon
The Dite Family
Rose Mary Menke
Bonnie Brantley
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Louis Monnig
Barbara Monnig
Mother Therese, Mary Lane
The Huger Family
Noah, Zoe & Leo
Tom and Mary Jo Cummins
Jeanette Oswald
Patty Oswald
Mary Ann Petsch
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Best of Missouri Market

This year marks the 11th Annual Best of Missouri Market at the Garden, and it's shaping up to be the best ever. The Market features wonderful foodstuffs and handicrafts from all over the state, with a mix of favorite vendors as well as 35 new offerings. Gather your family, friends, and neighbors and plan your days at the Market to catch the entertainment and dine on hearty festival fare. Kids go crazy for the farm- and food-related activities and music. Whether you care to catch a cooking demo of seasonal specialties or just knock out some holiday shopping early this year, you'll find all the options covered at the 2002 Best of Missouri Market.

Best of Missouri Market
Sat. and Sun., Oct. 5 & 6
9 a.m. to 5 p.m. (7 a.m. Sat. for Members only.
See page 5 for details.)
Admission: $7 adults, $5 seniors (65+),
$2 Members, children 12 and under—free.

The 11th Annual Best of Missouri Market is sponsored by Coca-Cola, Home Depot, Lord & Taylor, Commerce Bank, ConAgra, Edward Jones, and KMOX. Special thanks to the Girl Scout Council of Greater St. Louis for their continued support.

Hours
The Garden is open every day except Christmas 9 a.m. to 5 p.m., and till 8 p.m. on Mondays from Memorial Day, May 27, to August 26. Parking is free

Admission
- Free for Members
- General admission is $7
  $3 for St. Louis City/County (ZMD) residents
- Senior admission (65+) is $5
  $1.50 for St. Louis City/County (ZMD) residents
- Children age 12 and under—free
- Garden admission is free to St. Louis City/County (ZMD) residents until noon every Wednesday and Saturday throughout the year (except during Japanese Festival and Best of Missouri Market)
- Special events may require an additional fee

General Information
For 24-hour, pre-recorded information call (314) 577-9400. Outside the (314) area code, call toll free 1-800-642-8842

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Missouri Botanical Garden

Bulletin

November/December 2002 Vol. LXXXX, No. 6

This edition...

Holidays at the Garden

The Taylor gift

Ecuador ensemble

Winterizing your garden

Voyage to Tajikistan

Dana Brown Overnight Center

The air we breathe

And more...

Holiday Tidings

Director's comment

To discover and share knowledge
about plants and their environment,
in order to preserve and protect life.

-mission of the Missouri Botanical Garden

No single act in my 31 years as Director has been so transforming of the Garden and its role in society than the gift from Jack Taylor, founder of Enterprise Rent-A-Car.

This issue of the *Bulletin* reports on this extraordinary generosity that is the result of an understanding of and commitment to our mission. The gift establishes the Taylor Fund for Ecological Research, which will propel our 30-year effort to identify, catalog, and preserve plant species before they become extinct.

When I first arrived in St. Louis, there were four Ph.D. botanists at the Garden. Today, there are 50 with a support staff here and in the 30 countries throughout the world where we conduct our research. The Garden is the world leader in this field, and the Taylor Fund will make possible a determined effort in Central and South America, Madagascar, and elsewhere to survey specific sites for the most threatened species and to identify those that can be useful to humankind.

The Taylor Fund comes at a critical time. Tropical rain forests are being destroyed faster than scientists can investigate the potential of native plants for medicine, food, and other products. Plants are becoming extinct. The forest is disappearing. The more we know the more we can save; and the more we and the peoples of those counties, using established international protocols approved by the host country, can apply these plants to benefit them and the rest of society.

Jack Taylor understands this mission. The gift is not only a tribute to the Garden's work, but symbolic of a friendship we have had over the years, and, for all of us, the importance of St. Louis as a center for this work. I am very grateful and I know our gratitude will be shared by generations to come.

There is much to do. For us in St. Louis, our resolve must be to enhance the splendid horticultural display and educational programs of the Garden and the Shaw Nature Reserve, the future of the Sophia M. Sachs Butterfly House and the Gateway Center for Resource Efficiency. Our task in the St. Louis region is to use the Taylor gift as a standard to ensure the strength and future of our home as we preserve Nature's beauty and its enduring value for our children. I am grateful to all of our Members and other friends for your assistance throughout our history together and look forward to sharing with you the excitement of the Garden's bright future.

Peter H. Raven

Peter H. Raven
Director

Missouri Botanical Garden
Post Office Box 299
St. Louis, MO 63166-0299
www.mobot.org

Main switch (314) 577-5100
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Butterfly House
(636) 530-0076

Shaw Nature Reserve
(636) 451-3512

24-Hour Gardening Tips
HortLine (314) 776-5522

Horticulture Answer Service
Talk to a Master Gardener from
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(314) 577-5143

Composting Hotline
(314) 577-9555

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Shaw Nature Reserve, and
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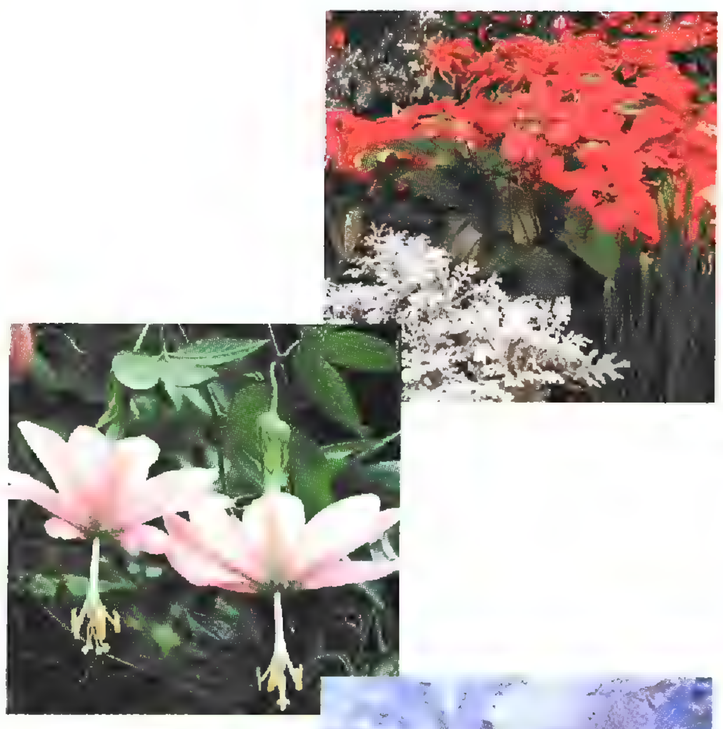

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PHOTO BY MBG PUBLICATIONS

Editor's Note

We've all seen the cereal boxes: "Now with 30% more free!" In March of this year, the *Bulletin* went full-color. Now for the first time since 1987, we've had to expand an issue of the *Bulletin*. For the past 15 years, the 24-page size has been just about right. But the last year has seen an explosion of Garden activities in St. Louis and throughout the world, and the *Bulletin* has been bursting at the seams. The 32-page size seen here has allowed us to bring you not only a broader variety of news, but also more in-depth reports on monumental events such as the Taylor Fund for Ecological Research. With an extra eight pages, there is more room to report on research, education, and horticulture happenings at the Garden across the board, but we want to know what *you*, our Members, would like to see more of in the *Bulletin*. Would you like deeper coverage of the Garden's membership activites? Do you like the tales of plant-hunters in far-flung locales? Could we use more coverage of activities for teachers and students? More home gardening tips? All of your suggestions for content of the *Bulletin*—new, improved, and with 30% more free in this issue—will be welcomed. Write to my attention at the address opposite or email the account below.

Elizabeth McNulty, editor
elizabeth.mcnulty@mobot.org

holiday events

If September and October celebrate the yield of a productive summer, November and December hunker down for the long haul. Time telescopes as days grow short and shadows long. We quicken our pace from door to door in the chill wind, and our lives seem to quicken too. These months are a time of preparation. The Garden prepares for winter; home gardeners winterize their yards; people of many faiths prepare for winter holidays. Amid this accelerating whirl of preparation, the Garden becomes a refuge. Did you know that peak foliage season for this region of Missouri is actually late October and early November? Now's the time to take a hike at the Shaw Nature Reserve. And when you just can't take another minute at the mall, remember that the chrysanthemums are in bloom at the Garden. Parking is a snap, and after stretching your legs, you can pick up a hassle-free gift or two at the Garden Gate Shop. There's nothing like a stroll through *Seiwa-en*, garden of pure, clear harmony and peace, on a blue-sky November day to refresh the spirit and the senses, and to reinvent the meaning of "thanksgiving."

Of course, the Garden is also a fabulous co-conspirator in holiday mirth. Throughout November and December, there are events, activities, and good old-fashioned fun for the whole family. Tried and true religious traditions get a fresh interpretation, new events create magic throughout the Garden, and the 2003 holiday flower show opens with a roar (for the animals on parade, read on...). So gather up your family, friends, and neighbors at this special time of year, and come down to the Garden to celebrate the season.

On November 9–10, it's **Wizard Weekend** at the Garden, and not to be missed by man nor muggle. A very special movie opens the next weekend, and in its honor, the Garden is hosting displays of wizardly magic and wild owls in flight. Conquer the Wizard's Challenge and win a special prize, but first you must follow a map deep into the wilds of the Garden, deciphering mysterious riddles along the way, and unscramble a puzzle. A Wizard Breakfast is available at 9 a.m. both days by reservation only. Participants will be seated according to their assigned houses of Raven, Linnaeus, Engelmann, and Shaw, and will fine-tune their magic herbology skills with Headmistress Amy Haake of the Garden's Education Division, as they dine. Call (314) 577-0254 for more information.

PHOTO BY MARY BUTKUS

Chanukah falls early this year, and the Garden celebrates on November 24. This traditional Celebration of Lights includes festive music and a menorah-lighting ceremony. Puppeteers, storytellers, and musicians tell the story of the miraculous oil lamp that burned bright for eight days. An Israeli shuk, or market, features an array of Chanukah merchandise. Kids can decorate Chanukah cookies and make seasonal crafts. *Shalom.*

Tower Grove House **luncheons** on December 10, 12, 16, and 18 feature a special holiday menu served in Henry Shaw's Victorian country mansion. Reservations required. Call (314) 577-9500.

Look out, it's **Animals on Parade!** The Garden's annual holiday flower show opens November 27 and runs through January 1. Meandering through the beds of Poinsettias, winter Begonias, and Gloxinias in full glory, is a veritable moss menagerie of marching animals. These oversized creations are dressed for the parade, as some cavort in the Kalanchoe, prance through the Paper-whites, and others swing from tree to tree. See how many animals your little one recognizes and don't miss the holiday photo-op at the entrance.

PHOTO BY MARY BUTKUS

Chestnuts roasting on an open brazier; jackfrost nipping at your nose; yuletide carols being sung by a choir... So dress warmly and come on down for **Christmas Carols in the Garden** December 5 and 6. There's hot cocoa, apple cider, and cookies for good boys and girls, and Santa will be on hand to check the list. As if that weren't enough, there are also Christmas crafts for kids and a wandering hurdy-gurdy man. This year, for the first time ever, we're featuring the Members' Preview of the flower show at the exact same time. For not just one, but both nights, Carols in the Garden will be free for Members. Joy to the World!

And while you're at Carols in the Garden, take a **Candlelight Tour** of the Tower Grove House. Experience the elegance of a 19th-century English Christmas in Garden founder Henry Shaw's country home, decorated for the holidays in traditional Victorian splendor. Reservations are required for this very special tour. Call (314) 577-9500.

PHOTO BY MARY BUTKUS

Kwanzaa means "first fruits" in Swahili, and Kwanzaa: the Festival of First Fruits centers on the feast table of the harvest in its celebration of African-American heritage and culture. On December 28, the Garden celebrates this contemporary holiday with storytelling, craft and jewelry workshops, and authentic African drumming and musical performances. *Kila kheri ya sikukuu* ("best wishes for the holiday")!

Animals on Parade!

PHOTOS BY KAREN HAGEMANN

Holiday Wreath Exhibit

The Garden's annual Holiday Wreath Exhibition opens November 23 and runs through January 1. Featuring creations by the finest floral designers in the St. Louis area, these gorgeous wreaths offer inspiration to all home holiday decorators. Wreaths are sold through a silent auction with proceeds benefiting the Garden.

Participants include: Dale Rohman, Studio P, Bittersweet, Twigs and Moss, MKS Design, Fiori, Hereford Andrews, and many more.

Edward Jones
Serving Individual Investors Since 1871

A proud sponsor of the 2002 holiday wreath display.

Topiary Classes

Adult education courses are available throughout the year at the Garden. Learn from the experts how to create fabulous botanical holiday decorations of your own this year.

Holiday Topiary Demonstration
Topiary is the art of training and pruning plants into unique and artful forms. It has been practiced for centuries and still holds intrigue for gardeners today. In this demonstration course you will discover this ancient pruning practice and learn what plants are good subjects for topiary and how to train and prune them.

Dec. 3, Tues., 7 p.m.
$25 (Members: $20)

Silk Flower Topiary
Make an everlasting holiday creation in this hands-on class. You will sponge paint and letter a clay pot for your base. Then you will learn to combine holiday greenery, ribbons, moss, and flowers to make a fabulous 15" topiary. Please bring a glue gun, glue sticks, and scissors, and we will provide the rest.

Dec. 4, Wed., 6 p.m.
$50 (Members: $45)

Fresh Flower Topiary
In time for the holiday season, create a beautiful fresh flower topiary in this hands-on class. Learn the techniques to make an elegant topiary using braided raffia, a decorative container, and long stem seasonal flowers, and you will leave with a great arrangement for your hearth or mantle.
Dec. 10, Tues., 7 p.m.
$40 (Members: $35)

A Click through History

Websurfers can get a fascinating glimpse into the history of the Garden and nearby St. Louis neighborhoods now that hundreds of the Garden's rare archival images have been made available online. Funded by a Missouri State Library Digital Imaging Grant, staff and volunteers in the Garden's Web group, information systems, and Archive divisions collaborated to develop a database, procedure, and standards for this high-quality digital image repository. Five hundred images were selected for the initial round of scanning based on historical interest.

"In selecting the images," says Andrew Colligan, Garden Archivist, "we wanted to give the viewer an idea of how much has changed since Shaw's time, but also how much history has remained."

Founded in 1859, MBG is the nation's oldest botanical garden and its Archive contains over 15,000 images, many in older formats.

"These items are extremely fragile and one of a kind," notes Colligan. "Previous methods of viewing these materials using now out-of-date equipment can actually cause damage to the originals. And in the case of glass plate negatives, we had no way of providing public access to these materials until now."

Access to archival photos, prints, and maps once limited to actual physical visitors to the Garden's Archives, is now possible for users of the Internet the world over, and in remarkable detail.

"This website provides public access to materials that were not available to many people," says Chris Freeland, Web project manager. "And the software format allows users to zoom in to a degree not possible with the naked eye."

Above: "Color" image of Tower Grove House from a rare 1907 magic lantern slide.

Left: the project website on www.mobot.org.

Browsers of **www.mobot.org** can click their way through a history of the Garden featuring fascinating 19th-century views of buildings and display gardens, and human-interest items such as Shaw posing for his mausoleum sculpture and a lady violinist performing atop a Victoria lily pad in 1890. Turn-of-the-century neighborhoods near the Garden, such as Flora Place, are also viewable, as are images from early botanical expeditions to places such as Panama, Colombia, and Alaska. Landscape designers and architects may be particularly interested in early maps of the Garden, which include layouts and designs for display gardens.

Once you've brushed up on your history, come see the real thing at the Garden, where history comes to life.

2002 Brown Award Granted

PHOTOS COURTESY DR. CALVIN QUALSET

Dr. Calvin O. Qualset, recipient of the 2002 William L. Brown Award for Excellence in Genetic Resources Conservation.

On November 5, Dr. Calvin O. Qualset of the University of California Davis will become the second recipient of the William L. Brown Award for Excellence in Genetic Resources Conservation for his accomplishments in conserving and utilizing genetic resources for future generations. Dr. Peter H. Raven, Director, will present the award at a dinner following the Symposium on Plant Genetic Resources Conservation.

The William L. Brown Award is presented to an outstanding individual in recognition of contributions made in the field of genetic resource conservation and use. The William L. Brown Center for Economic Botany, which sponsors the award, was established with a generous gift from the Sehgal Family Foundation to honor the work and legacy of Dr. Brown—a distinguished scientist, businessman, and humanitarian—and his lifelong efforts to collect, preserve, understand, and share plant genetic resources.

Dr. Qualset is the founding director of the Genetics Resources Conservation Program of the Division of Agriculture and Natural Resources at the University of California at Davis. Over 40 years of research, he has worked to discover interesting genetic resources of wheat, barley, oat, and triticale (a wheat-rye hybrid), to access the genetic basis for those traits, and to use them efficiently in plant breeding.

The Symposium on Plant Genetic Resources Conservation is sponsored by the Missouri Botanical Garden, in collaboration with the Donald Danforth Plant Science Center, Washington University, and the World Agriculture Forum.

PHOTOS BY PETE LOWRY

New Genus Discovered

Garden researchers collecting plants on the remote South Pacific island of New Caledonia have discovered a new genus belonging to the plant family Cunoniaceae, a group of Southern Hemisphere tropical trees. The finding is particularly exciting because it is very rare to discover a genus in the field (a genus is a group of species, like oaks or maples, that look different from their nearest relatives).

"Although the flora in New Caledonia is better documented than in many other parts of the tropics, the recent discovery of this new genus clearly demonstrates that additional exploration is still needed," says Dr. Gordon McPherson, who, along with colleague Dr. Pete Lowry, made the discovery. The genus will be named in honor of Dr. Ru Hoogland, who was the world's recognized expert on Cunoniaceae until his death in 1994.

The tropical island of New Caledonia, a French territory located east of Australia, is slightly smaller than New Jersey. "This is a botanical paradise, with one of the world's most interesting and distinctive floras," said Lowry. "Ask any botanist to name the five most intriguing places in the world, and New Caledonia will be on everyone's list." Missouri Botanical Garden staff have conducted research there since 1979.

In May, McPherson and Lowry were exploring Mt. Ignambi, a 4,300 ft. peak in the Panié Massif in the northeast part of the island. Working with New Caledonian forestry agents and a student from the local university, they camped about half way up the mountain and collected botanical specimens along a foot-trail leading to the summit.

"After a few days of collecting, we found a tree with flowers and fruits of a kind that we had never seen before, despite many years of field work in New Caledonia," said McPherson. After careful study in the field and later back in St. Louis, researchers realized that their specimens did not belong to any known genus.

The new discovery is also significant because it was made directly in the field, allowing McPherson and Lowry to prepare freshly collected specimens and take color photos. According to Lowry, "Botanists almost always recognize new genera and species while studying museum specimens long after they are collected. It is a once-in-a-lifetime experience to know you have something this special—a completely new genus—as soon as you see it!"

NSF Grant

The National Science Foundation has granted a consortium of St. Louis institutions supporting science education, including the Garden, $10 million to create the St. Louis Center for Inquiry in Science Teaching and Learning (CISTL). One of only 10 NSF-funded centers for learning and teaching, CISTL will serve as a national model, improving science education through research. CISTL partners include, among others, Washington University, St. Louis Science Center, St. Louis Zoo, University of Missouri–St. Louis, and five local school districts.

"Each partner institution brings a wealth of scientific and educational expertise to the project," says Barbara Addelson, Senior Manager of Education at the Garden. "Together we can more powerfully impact science instruction than any one institution could do alone."

endowments

At the June 20 Board of Trustees meeting, it was announced that Garden positions in education and horticulture have been named in recognition of a generous gift from the William T. Kemper Foundation. The gift endowing these two positions is the largest made by the Kemper Foundation in St. Louis to date and will continue the Foundation's commitment to education and outreach.

PHOTO BY MBG PUBLICATIONS

Dr. Steven Cline

Dr. Steven Cline has been named the William T. Kemper Manager of the Kemper Center for Home Gardening. Dr. Cline came to the Garden in 1989 as a specialist in plant pathology, and was integral in the conceptualizing and development of the Garden's William T. Kemper Center for Home Gardening. Since its opening in 1993, the Kemper Center has been one of the most popular and heavily utilized areas of the Garden. With a reference library, computer resources, volunteer Plant Doctors, adult education classes, and an active University Extension program, the Kemper Center educates local home gardeners, as well as students, seniors, and the general public.

PHOTO BY MBG EDJACTION

Dr. Luther Williams

Dr. Luther S. Williams is now the William T. Kemper Director of Education and Interpretation and Senior Advisor to the Director of the Garden. Dr. Williams came to the Garden in December of 2001, having previously served as the Assistant Director for Education and Human Resources at the National Science Foundation. A professor, dean, and president at several prestigious academic institutions, including Purdue, MIT, and Washington University, Dr. Williams has stated the goal of the Garden's Education Department is "to achieve the kind of national leadership in math and science education that the Garden already has in botanical research and conservation."

Taylor gift

Taylor Fund for Ecological Research

ST. LOUIS—On September 18, Jack C. Taylor, founder of Enterprise Rent-A-Car, gave $30 million to the Missouri Botanical Garden in the single largest gift ever given to a botanical institution. The Taylor Fund for Ecological Research will allow the Garden to make even more substantial contributions to the knowledge of plant diversity in countries all over the world, and to work with these countries to conserve and develop plant resources sustainably before it's too late.

Plants are the basis for all life on Earth, making human life possible. Learning about plants and using that knowledge is not only fundamental to human survival but also critical in determining the quality of our existence in the future. Of the estimated 400,000 species of plants in the world, science believes that we have identified and studied only about one in six, with most of the unknown species concentrated in South America.

It is estimated that, at the present rate of deforestation, by the middle of the century only about five percent of the world's tropical rain forests may persist. We are in a race against extinction and habitat destruction never seen before. One of the aims of the Garden is to increase research in South America, to work more intensively in that region in order to improve substantially the level of understanding of the plants before they are gone.

Plants provide many useful products, such as foods, clothing, medicines, gums, essential oils, and many other potential applications. These products are derived from less than one percent of all tropical plants; the other 99 percent have not been screened for potentially useful properties. As natural areas are destroyed, generations of people will be deprived of the opportunity to use this large portion of the world's plants as sources of foods, medicine, and other products. The Missouri Botanical Garden is a preeminent institution in the study of tropical plants, and as such, is uniquely qualified to carry out an extensive investigation of the plants of South America.

The Taylor Fund for Ecological Research will enable the Garden to:

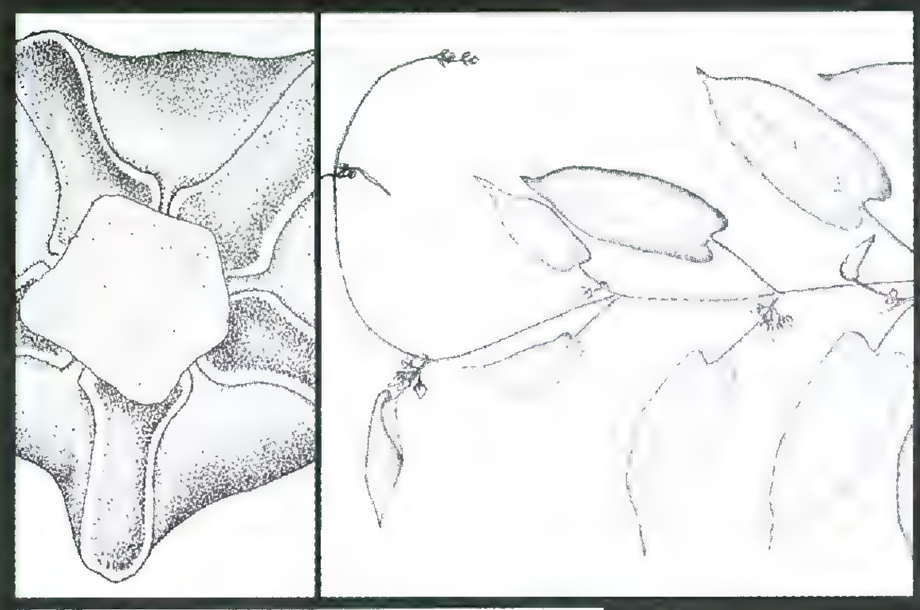
- *Build capacity in areas of scientific and economic interest by working toward a better understanding of particular groups of plants.*
- *Enhance our electronic capabilities for dealing with large amounts of botanical information and improve the curation of our research collections.*
- *Strengthen scientific and conservation partnerships in countries where we are active now and develop new partnerships.*
- *Bolster and revitalize critically important ongoing projects, such as the studies of the flora of Mesoamerica and Madagascar.*
- *Process a great backlog of material in the herbarium to make it accessible for studies.*
- *Explore in depth a series of poorly known areas.*

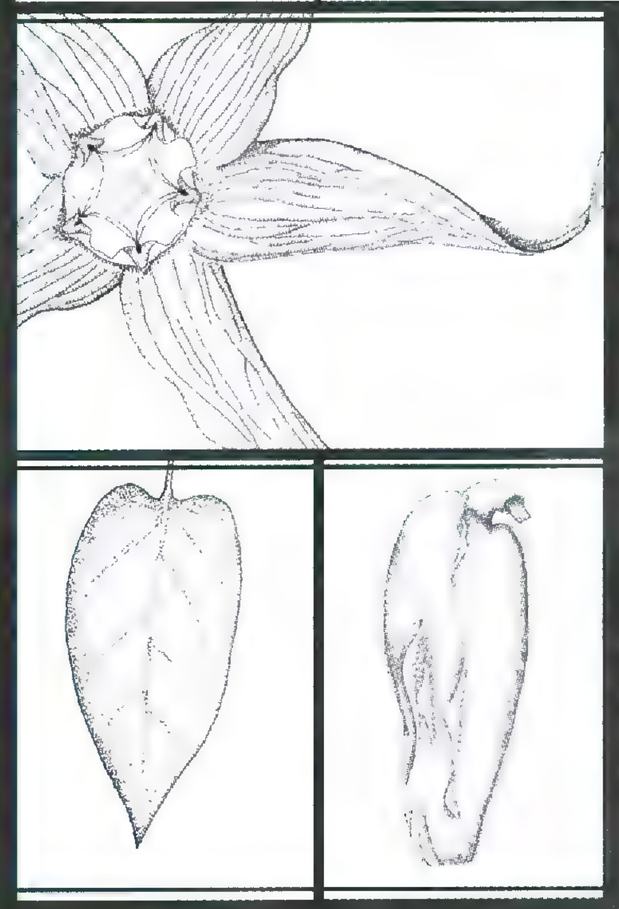
See pages 10–11 following for details.

Above: JoAnn Taylor Kindle, Susan Taylor, Jack C. Taylor, Andy Taylor, and Barbara Taylor with Dr. Peter H. Raven display the plant named for Taylor.

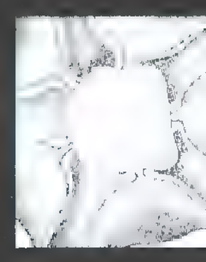
Opposite: Dr. Peter H. Raven and Jack C. Taylor announce the Taylor Fund for Ecological Research.

Right: Illustration of the specimen for the Taylor Milkweed.





"We have relatively short lives, and yet by preserving the world in a condition that is worthy of us, we win a kind of immortality."



- Peter Raven

Taylor Milkweed

A new species of potential economic value has been named in honor of Jack C. Taylor in recognition of his outstanding leadership in supporting conservation and environmental sustainability, and in gratitude for his support to the Missouri Botanical Garden.

The specimen presented here is an isotype specimen (i.e., part of the original collection) of a Mesoamerican endemic species new to science. This plant grows throughout Mesoamerica, from Chiapas in Southern Mexico to Costa Rica and has long been cultivated for its edible fruits in the highlands of Guatemala and El Salvador. Only recently, through the Garden's on-going studies of the flora of the Mesoamerican region, has it been recognized as a new species.

As with all new species, the validation of this species will take place after it is published. The place of publication will be the journal *Novon* 12(4), 2002, published by the Missouri Botanical Garden Press.

Taylor Fund for Ecological Research

The five new areas targeted for in-depth study include: the Madidi region in Bolivia, the Cordillera del Cóndor region and the Chocó-Manabí Corridor in Ecuador, and the Valle del Vilcanota-Urubamba and Oxapampa regions in Peru. Several independent studies have identified these regions as among the most important centers of biodiversity in the world.

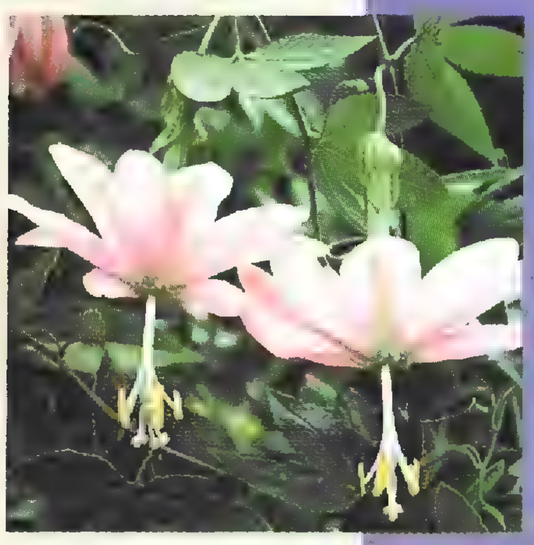
Madidi is located on the northeastern side of the Andes in the Bolivian department of La Paz. High rainfall, variable topography, complex geology, and past climate changes in this region has led to the development of remarkably high levels of both species richness and high habitat diversity, accounting for the extremely high estimates of biodiversity for the area.

In response to these factors and to a few very preliminary studies, Bolivia has designated Madidi as a national park. However, the area is almost entirely unknown. With the Taylor Fund for Ecological Research, the Garden will be able to conduct studies, including general collecting and the establishment of permanent plots, to provide a complete listing of the plants from the region and to determine plant species richness within specific habitats of Madidi.

The **Cordillera del Cóndor** is an eastern outlier of the main Andean chain that forms part of the international border between Ecuador and Peru. The region is of great interest to biologists; according to one report, the Cordillera del Cóndor may well have the "richest flora of any similar-sized area anywhere in the New World." It almost certainly has one of the highest concentrations of vascular plant species yet unknown to science of any place on Earth.

The Missouri Botanical Garden, in collaboration with the National Herbarium of Ecuador, initiated botanical explorations in the Cóndor area in 1990, but work was interrupted by the Peru-Ecuador border conflict. Fieldwork began again in the area in late 2000 with support from the National Geographic Society, and botanists have discovered a number of new species on the first two field trips to the area. But a comprehensive survey of the plants of the Cóndor region, however, will require years of concentrated effort. The Taylor Fund for Ecological Research will enable Garden scientists to carry out intensive botanical explorations, quantitative studies of forest with permanent study plots, and botanical training in the region in collaboration with the Ministry of Environment of Ecuador.

The **Chocó-Manabí Corridor** in northwestern Ecuador is a key area within one of Earth's most important life-giving regions—the Chocó hotspot located at the transition between Central and South America. Stretching from southeastern Panama to northwestern Peru, the region is recognized globally as one of the world's most biologically diverse, providing habitat to an extraordinary wealth of plant and animal species. The Chocó supports an estimated 9,000 vascular plant species, approximately 25 percent of them endemic (that is, occurring only in that region). The Ecuadorian Chocó is estimated to support 25 percent of that nation's flora, or approximately 6,300 species of plants, 20 percent of which are endemic. The Chocó-Manabí Corridor spans moist coastal lowland ecosystems to very humid forests on the western slopes of the Andes and ranges in elevation from 400 to 16,000 feet. The corridor has an extremely high level of endemism—by some estimates, one of the highest in the world.



The **Valle del Vilcanota-Urubamba** rivers are situated on the western slope of the Andes. The **Oxapampa** region consists of three almost-adjoining reserves located in central Peru. The limited amount of knowledge of the vegetation of these areas shows the existence of high levels of biodiversity. Vegetation composition here varies enormously: from herbaceous in the antiplano to various kinds of cloud and mountain forests in the middle elevations to rainforest in the lowland slopes. Enabled by the Taylor Fund for Ecological Research, the Garden's study will document the changes in vegetation structure and species composition along such an enormous altitudinal range, and it is believed that many species new to science will be documented.

From left: (1) Quendeque River in Madidi National Park, Bolivia. (2) Dr. David Neill, Curator and Director of the MBG program in Ecuador, collecting specimens in the Cordillera del Cóndor. (3) Panorama of the Chocó-Manabi Corridor near the Ecuador-Colombia border. (4) Neotropical passion flower. (5) Clusia from the Oxapampa region of Peru. (6) Baobab trees in Madagascar. (6) South American passion flower.

The Taylor Fund for Ecological Research also provides for a variety of ongoing projects, such as the studies of the flora of Mesoamerica and Madagascar.

The Missouri Botanical Garden, the Universidad Nacional Autónoma de México, and The Natural History Museum, London, have organized the *Flora Mesoamericana*, a long-term, collaborative project to study the flora of the Mesoamerican region. *Mesoamerica* includes the seven Central American countries (Panama, Costa Rica, Nicaragua, El Salvador, Honduras, Guatemala, and Belize) and the five southern Mexican states of Chiapas, Quintana Roo, Campeche, Yucatan, and Tabasco. The region is extremely diverse and interesting, including rain forests in addition to dry forests, alpine area, and grasslands. Although *Flora Mesoamericana* encompasses only a relatively small geographic area (about 0.4 percent of the world's land area), it covers a comparatively large regional flora of an estimated 17,000 species, or roughly 7 percent of the world's vascular plants. The project depends on extant literature and data as well as intensive plant collecting. In this region there is particular emphasis on the study of the plants of Costa Rica in the southern part of the region with an estimated 9,000 species of plants, of which some 5 percent are endemic. The flora of Costa Rica is especially rich because, within a relatively small surface area, the country has a wide range of life zones and high elevations.

Madagascar, an island nation off the east coast of Africa, has one of the world's highest percentages of endemic plant life, with over 95 percent of its 12,000 plant species found nowhere else on Earth, including seven endemic plant families—the highest of any island on Earth. Isolated for over 100 million years, Madagascar's flora has evolved and diversified spectacularly, making the island a living laboratory of evolution. Its vegetation ranges from lush rain forests to spiny deserts and mountain thickets, but all of these ecosystems are highly threatened by unsustainable land use practices. As a result, Madagascar is one of the world's most critical conservation priorities. With the Taylor Fund for Ecological Research, the Missouri Botanical Garden is creating a Madagascar Plant Conservation Database in collaboration with botanists and foresters within Madagascar and abroad. This database will serve as the basis for a list of targeted species judged to be inadequately protected by the country's network of parks and reserves and likely to become extinct within the next one or two decades without species-focused conservation action.

Ecuador

Shuar Visitors

Center for Conservation and Sustainable Development

In September the Garden's Center for Conservation and Sustainable Development hosted a visit from the leadership of the Shuar communities of Ecuador to discuss the Center's on-going joint conservation project with the Shuar and to explore further possibilities for collaboration. The delegation was composed of Pablo Tsere, President of the Shuar Federation; Marcelino Chumpi, Executive Secretary of the Council for Development and Nationalities of the People of Ecuador; and Juan Carlos Jintiach, Advisor for the Environment and Natural Resources of the Shuar Federation.

PHOTOS BY ELIZABETH MCNULTY

Pablo Tsere and Marcelino Chumpi discuss areas slated for conservation in Ecuador.

From left: Juan Carlos Jintiach, MBG Assistant to the Director Olga Martha Montiel, Pablo Tsere, MBG Curator of the flora of Ecuador Dr. David Neill, Marcelino Chumpi, and MBG Research Fund Developer Gail Milder.

The Shuar are the second largest indigenous group in Ecuador with a population of about 80,000. Their territory covers approximately 10 percent of Ecuador's total land area and stretches from the eastern slopes of the Andes to the Amazon lowlands. The southernmost part of the Shuar territory includes the Cordillera del Cóndor, an unexplored but biologically unique region along the Ecuador-Peru border. The limited botanical explorations conducted in the region to date have resulted in the discovery of many species new to science. However, gold and other minerals have recently been found in the Cóndor ranges, and the Ecuadorian government has granted mining concessions to private companies over large areas of the Shuar territory, threatening the integrity of the area. The area also faces conservation challenges arising from the activities of some of the Shuar communities.

The Shuar Federation is well organized. Their capital city Sucúa includes a health clinic with a program in traditional medicine, a Federation-owned grocery store, a conference center, and two light planes for transport to remote villages. Aware of the social and economic challenges that its communities face, the Federation has made a commitment to establishing a conservation and land-use planning unit. The Garden is working with the Shuar to achieve this goal. The collaborative two-year program provides training to develop the Shuar organization's technical capacity to plan and carry out natural resource management and conservation actions. At the conclusion of the program, a group of four Shuar will be able to conduct projects in forest management, plant conservation, wildlife conservation and management, and community-based land-use planning.

Christiansen Fund grant for South America

The Center for Conservation and Sustainable Development has received a grant from the Christensen Fund to train a cadre of conservation biologists and botanists in each of the Andean countries of Ecuador, Peru, and Bolivia. At the end of the program, these young scientists will be equipped to contribute to increasing the knowledge of biodiversity and sustainably managing the natural resources in their countries. The program will consist of several courses and fellowship opportunities designed to provide in-depth training in plant biology and conservation. Some of the courses will be taught in each of the three countries, while others will be implemented at the regional level, providing opportunities for exchange and for training that brings multicountry perspectives to conservation issues. Some of the fellowships will also provide funds to carry out and complete research programs at the Garden facilities in St. Louis.

PHOTO BY DAN MAGIDSON

Lucianna Gladney Ross receives the Henry Shaw Medal from Director Peter Raven.

Henry Shaw Medal Awarded

The Missouri Botanical Garden has awarded the Henry Shaw Medal to longtime volunteer and board member Lucianna Gladney Ross of St. Louis. Dr. Peter H. Raven, Director, presented the medal at a special dinner on October 14 at the Garden.

"Lucianna Gladney Ross is a committed and extraordinary volunteer who possesses an unwavering dedication and drive for the Garden and many other causes," said Dr. Raven. "She has given generously of herself throughout the years and truly deserves this award."

A member since 1965, Ross has supported the Garden throughout the years with her time, knowledge and generosity. In 1978 she was the first woman elected to its Board of Trustees and remains an Emeritus member today. She served as a Garden Guide for many years and was co-chairman of the Guides from 1973–75. As a charter member of the Henry Shaw Fund Committee in 1979, she offered advice and counsel on many of the Garden's most important decisions. Her major gifts helped create the Gladney Rose Garden and the Ridgway Center.

Awarded since 1893, the Henry Shaw Medal honors those who have made a significant contribution to the Missouri Botanical Garden, botanical research, horticulture, conservation or the museum community.

Charitable Gift Annuities

Help secure your future and the future of the Garden. A gift to the Missouri Botanical Garden can provide you with a guaranteed income for life and a significant charitable tax deduction. With a gift of appreciated stock, you may also eliminate capital gains tax on the transfer. Rates of return for a single life charitable gift annuity with the Garden range from six to over ten percent, based on your age. The chart below illustrates the potential income and tax benefits from a $10,000 gift.

For a free illustration of how a charitable gift annuity would benefit you, please call Judi Schraer, Planned Giving Officer, at (314) 577-9455.

Potential Benefits from a $10,000 Charitable Gift Annuity for Single Life Income Beneficiary

Age	Rate of Return	Annual income
60	6.4%	$ 640
65	6.7%	$ 670
70	7.2%	$ 720
75	7.9%	$ 790
80	8.9%	$ 890
85	10.4%	$1,040

Become a Corporate Partner today!

The Corporate Partners program is designed to strengthen the relationship between the Missouri Botanical Garden and the corporate community in the greater metropolitan region. Garden Trustee and committee chair, Ed Higgins invites you to consider the benefits of membership. Becoming a Corporate Partner offers your company many privileges. For information, please call Jamie at (314) 577-9513 or email jamie.cox-robertson@mobot.org.

We are pleased to recognize corporations who have recently joined, renewed, or upgraded their Corporate Partner membership.

Underwriter Level ($5,000 to $9,999)

Blue Cross/Blue Shield of Missouri
Brown Shoe Company (renewal)
Graybar Electric (renewal)

Supporter Level ($1,000 to $4,999)

Cortland Associates, Inc.
Investment Management

Frost on the glass in the Linnean House (built 1882

Winterizing and Winter-Gardening

Every year, the growing season just seems to fly by! Shortly, we will be thinking about the holiday season and gardening will be confined to snippets of extra time. However, November can still be fairly mild in St. Louis, offering an opportunity to clean up the garden. Here are some tips for preparing the garden for the dormant season.

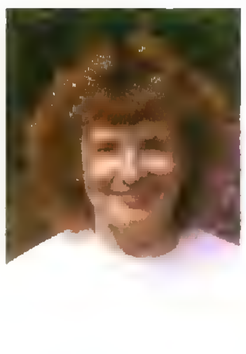


PHOTO BY MBG PUBL CATIONS

by June Hutson,
Horticulture Supervisor

Perennials

Some chores amount to doing presently nothing! Many perennials such as asters, goldenrods, ornamental grasses, and tall sedums can be left uncut for the winter. The seed heads remain attractive for much of the season and provide natural food for many birds. They can be cut down in late winter/early spring when the stalks start to disintegrate.

The foliage of Ceratostigma, Stachys byzantina, low-growing sedums, Penstemons, and Heucheras benefit from not being cut back until spring. It serves as a blanket and keeps the moisture from collecting around their crowns. Plants such as Hostas, Pulmonarias, and daylilies suffer total collapse of their foliage for the winter and can be cut to the ground.

If you are not sure whether to cut the plants, leave about 2–3 inches and mulch around the crown, not over it. Mulch should be applied 2–3 inches deep over perennial beds after the ground has cooled. If applied too soon, the soil will stay warm, signaling the plants that it is time to grow and not go dormant. Fall planted perennials should be kept moist if rainfall is less than abundant. The roots are more likely to spread into the surrounding soil with adequate moisture. During the winter months, check newly planted perennials for heaving. The frost causes the plants to move upward if they are not firmly rooted. When spring arrives, they dry out quickly and then die for lack of moisture. Firmly press any plant that has heaved back down in the soil.

Shrubs

Some shrubs such as Azaleas, Rhododendrons, Lilacs, Weigela, and Viburnums bloom on second-year wood. Pruning them now will eliminate their flower buds for next spring. They should be pruned right after they bloom in the spring. Prune Buddleias back half way. Wait until spring to see how much old wood survives before cutting any further. Roses should be cut back enough so the wind will not rock the plants loose in the soil. They should be mounded with soil or compost for the winter months. This procedure protects the graft and hopefully assures the survival of most cultivars. The ground should be cool before the mulch is applied. Warm temperature may cause buds to swell and then be killed by subsequent cold weather. Remove all foliage to protect against overwintering diseases. Climbing roses can be left uncut for the winter; just make sure they are tied securely to their support system.

Bulbs

Narcissus should be in the ground by now, but normally will survive if planted late. The flowering may be delayed but will bloom at the normal time in subsequent years. Tulips and minor bulbs should be planted at proper depths before the ground freezes. The latest research has shown that it is not necessary to add bonemeal in the planting hole. The bulbs have a reserve of energy and benefit from an application of balanced fertilizer in the spring, when their tips begin to show. Water the ground thoroughly to initiate rooting if there is little rain.

Trees

Water all trees that have been planted within the last year thoroughly. New trees should be mulched after the ground has cooled. Mulch should not exceed 3–4 inches over the root zone and keep it away from the trunk of the tree. Mice love to munch the tender cambium layer protected by a nice blanket of mulch! If a new tree was planted from a container or had a loose rootball, staking for the first year is helpful. The idea is for the tree to develop rigidity on its own and naturally will do so. However, if the roots are not in a tight ball or haven't attached themselves firmly to the surrounding soil, it may rock itself loose in the winter winds. A stake or stakes will help alleviate this problem. Remove after a year. To prevent sunscald of the trunk, wrap the trunk for the first winter only.

Houseplants

Houseplants that have been brought indoors from their summer vacation need bright light. Consider installing artificial lights for better growth during the drab winter months, when many cloudy days can prevail. Metal halide produce so much more light than fluorescent bulbs for compact growth. High sodium lights produce the red spectrum of light, which enhances flowering. Stop by the Kemper Center greenhouse for a display of both types of artificial light.

Watch for pests such as whiteflies and mites that thrive in the dry heat in many homes. Treat with insecticidal soap should a problem occur. Also watch for ants in the soil. This has been a problem during the summer on many plants, and they may have tagged along in the pots when brought indoors. Flush the containers with water and you will see them scurrying atop the soil as they try to escape. Discard the ants with the overflow water. Little fertilizer is needed for the winter months as growth of most plants slows down. Feed with liquid fertilizer about every 6 weeks at half the strength listed on the label.

You can make a difference in St. Louis today!

How proud Henry Shaw would be today! His "little garden" is a world-renowned institution of botanical research, science education, and horticultural display, with over 79 acres of magnificent living collections and 700,000 visitors a year. Because of you and fellow generous benefactors throughout the last 143 years, we have been able to fulfill Henry Shaw's vision.

You may have read about the magnificent gift from the Taylor family (see pages 8–11 of this issue). The Taylor Fund for Ecological Research will finance important research on sustainable development and biodiversity in Meso- and South America and throughout the world, to help preserve the full diversity of plant life for future generations.

What you may not know, however, is that the Garden continues to seek funding for the Henry Shaw Fund, our most critical resource for general operating support. A gift to the 2002 Henry Shaw Fund allows us to maintain and operate the Garden for the St. Louis community. It enables us to respond quickly to sudden opportunities for service and programming and to continue to be a haven of horticultural beauty. Your commitment will embody Henry Shaw's spirit and stand as an enduring legacy for all who love his Garden.

To make a gift, please contact Cathy Sullivan at (314) 577-0858 or email cathy.sullivan@mobot.org.

calendar

Continuing

Through Nov. 6
Pharaoh's Harvest" pl highlights the ingenious uses for a special group of plants discovered and developea by ancient Egyptians which nave played in Egypt's development rom pren stor c to modern times. ? a.m. to 5 p.m. RC

Through Dec. 5
Fall classes and walks for adults and fam lies a the Shaw Nature Reserve in Gray Summit, MO. For information, ca (636) 451 3512. $.

Through Dec. 14
Fall classes and tours for adults and fam lies. Classes are held in a variety f Garden venues For information mobot.org/gardening/ne ; (314) 577-9441. $.

Through Dec. 31
M ssour Botanical Garde n. to 5 p.m. RC

November

Nov. 6
(Garaen

Nov. 6 to 10
Garaen Gate Snop pre-hol day s 9 a m to 5 30 p m Food tastina on Nov 9 Garaen members percent a scount GGS

Nov. 7
Biographer M chae ong presents a informal talk about the life of George Engelmann, Snaw's scientif c advisor, n s lasting influence on the Garden's ilitic programs. 4 p.m. M.

Nov. 9
Garden Gate Shop food tastin 9 a.m. to 5:30 p

Nov. 9–10
at 9 a m on both days

Rough Science

Don't miss the Garden's own Ellen McCallie (above second from left), who stars in this BBC production of "Survivor" for scientists. McCallie, a tropical ecologist, was the only American selected for the show, which challenges scientists to explore the practical side of their disciplines while "stranded" on a tropical island. Rough!

Rough Science
Sundays through Dec. 8
10 to 10:30 p.m.
KETC-TV Channel 9

Coming soon... *On Sundays throughout January, the Garden will rebroadcast episodes of "Rough Science" with real-life Rough Scientist Ellen McCallie present to speak about her experiences on the show. A hands-on, "Rough Science"-inspired challenge will be held in a classroom. Free, but advance reservations required. Call (314) 577-0254.*

PHOTO BY GERRITT DAVIDSE

Costa Rica Adventure

March 18–26, 2003

Join Shaw Nature Reserve's Lydia Toth, Manager of Education Services, and Jan Oberkramer, Coordinator of the Dana Brown Center, on a 9-day wildlife expedition to Costa Rica! Travel from the cosmopolitan city of San Jose to the incredible Monteverde Cloud Forest Preserve, laden with orchids and bromeliads and home to over 400 species of birds, including the resplendent quetzal. Experience lush rain forests in the Tirimbina Reserve and one of the deepest active volcanoes in the world in Poas Volcano National Park. Spend a day exploring the fascinating wildlife sanctuary, coastal areas, and waterways of the Tortuguero National Park by boat. For information and a brochure please call (636) 451-3512.

***Nov. 13**
Members Day Hol day Decorating and Entertaining with Cater ng St. Lou See pages 18 19 for details 11 a m Shoenberg Aud. RC Following t have a looa tasting, featuring our signature Missouri Botanical Garden looa iten

Don't miss a very special side show at the World Wiae Conservat Tour of South Africa scheduled for September 17 30, 2003 Learn mor about this trip to worla-class botan rks w ldlife sanctuaries an

Nov. 15
monstrat 14

***Nov. 19**
Members' Day: lecture, s iae show nd book signing with Gordon Haywar author of Stone in the Garden. nspiring Design and Practical Proje See pages 18 19 for deta ls 11 a m Snoenberg Aud RC

Nov. 23–Jan. 1
Ho aay wreath exh bition Unusua magnificent wreaths created by ome of the area's finest floral des gner ome wreaths are sold through a silen auction with proceeds benefiting the Missouri Botan cal Garaen

Nov. 24
Chanukah Festival of Light traa tional Jewish ho tion that inc uaes festive n a menoran-l ghting ceremor puppet snows, and musician k

Nov. 27–Jan. 1

# of events

December

Dec. 2
Garden Gate Shop hosts a jewelry trunk show with designer Shelly Solomon. GGS.

Dec. 5
The Garden Gate Shop will host a gourmet coffee and tea tasting, with samples of new candy products. 4 to 8 p.m.

Dec. 5 & 6
"Christmas Carols in the Garden." Sounds of the holiday season fill the air as carolers and musicians perform throughout the Garden. Santa will be on hand, too! See page 5 for details. 5 to 9 p.m. RC $.

Tower Grove House Candlelight Tours. See page 4 for details. 4:30 to 8:30 p.m. Reservations required; call (314) 577-9500. $15 (Members $12).

Dec. 6–10
Garden Gate Shop holiday sale. 9 a.m. to 5:30 p.m. Garden members receive a 20 percent discount.

***Dec. 7**
Members' Event: Breakfast with Santa in the Garden Cafe. See pages 18–19 for details. Call (314) 577-9500 by Dec. 2 for reservations. 8 to 10:30 a.m. $.

Garden Story Time, for children ages 4 to 10, features holiday stories read by Mrs. Claus. Children under age 4 must be accompanied by an adult. Food tasting in the shop. 11 a.m. GGS.

Dec. 7 & 8
The Jelly Belly™ car will be at the Garden, offering free samples. GGS.

Dec. 10, 12, 16, & 18
Holiday luncheons at Tower Grove House. Reservations required
Call (314) 577-9500. $15.

***Dec. 14**
Members' Event: a holiday concert with the Saint Louis Harmony Chorus. See pages 18–19 for details. 1 p.m. Shoenberg Aud. RC. The Garden Gate Shop will offer additional 5% discount on all CDs.

Dec. 20
Tour of the EarthWays Home at Grand Center. See Nov. 15 for more details. Call (314) 577-0220.

Dec. 25:
The Missouri Botanical Garden is closed on Christmas Day.

Dec. 26 to 31
Garden Gate Shop end-of-year sale. 9 a.m. to 5:30 p.m. Save on select items.

Dec. 28
"Kwanzaa: Festival of the First Fruits." Ceremony highlights a day of storytelling, craft and jewelry workshops, and authentic African drumming and musical performances. See page 5 for details. 11 a.m. to 5 p.m. RC.

Upcoming

Jan. 20 to Mar. 7
"Missouri Discoveries." Exhibition by John Louder. 9 a.m. to 5 p.m. RC

"Celebrating A Century of Conservation," a U.S. Fish and Wildlife exhibit. 9 a.m. to 5 p.m. RC.

Feb. 1 to Mar. 16
"Enchanted Forest" orchid show features fairies, elves, and woodland wizards among hundreds of exotic and fragrant orchids and lush tropical foliage. 9 a.m. to 5 p.m. RC. $.

The Garden Gate Shop offers an outstanding selection of orchids available during the show, with proceeds benefiting the Missouri Botanical Garden.

Feb 1 & 2
Missouri Orchid Society show and sale. 9 a.m. to 5 p.m. RC

Feb. 9 & 16
"Celebrate the Gospel." The Garden's 13th annual music celebration features outstanding performances by musicians and choirs from local churches and organizations. RC.

Feb. 22 & 23
"Sugar, Spice and Everything Iced" is a fabulous display and demonstration by local cake decorating experts, featuring exquisite hand-crafted botanical decorations and wedding cake designs 9 a.m. to 5 p.m. RC

PHOTO BY SANDY YOUNG

Give the gift of fun to a senior!

Programs for seniors are held at the Garden throughout the year. To register, please call Carol Bauman at (314) 577-9506

Thanksgiving Day Centerpiece. *Come join us in making an all botanical Thanksgiving Day centerpiece using the bounty of nature! Nov. 27, Wed., 1 p.m. $6.*

Holiday Wreath Making. *Use fresh greenery, ribbon, and pine cones to create a holiday treasure to keep or give away. Dec. 4 and 11, Wed., 10 a.m. and 1 p.m. Dec. 18, Wed., 10 a.m. $6.*

Key

All events are free with admission or Membership unless otherwise noted.

BH = Butterfly House
CA = Cohen Amphitheater
CL = Climatron
EH = EarthWays Home
GGS = Garden Gate Shop
JG = Japanese Garden
KC = Kemper Center
MC = Monsanto Center
RC = Ridgway Center
SNR = Snaw Nature Reserve
SP = Spink Pavilion

* denotes a Members only event.

$ denotes additional fee.

Missouri Botanical Garden
4344 Shaw Boulevard
St. Louis, MO 63110

Hours
The Garden is open every day except Christmas, 9 a.m. to 5 p.m. Extended summer hours for 2003 will be announced. Parking is free.

Admission
- Free for Members
- General admission is $7 ($3 for St. Louis City/County residents).
- Senior admission (65+) is $5 ($1.50 for St. Louis City/County residents).
- Children age 12 and under—free.
- Garden admission is free to St. Louis City and County (ZMD) residents until noon every Wednesday and Saturday throughout the year, (except during Japanese Festival and Best of Missouri Market).
- Special events may require a small additional fee.

Information
For 24-hour, pre-recorded information, call (314) 577-9400. Outside the (314) area code, call toll free 1-800-642-8842.

Tours, Education, Fitness
Take a self-guided "Great Garden Adventure" tour. Ask at the ticket counter about a Fitness Foray, Stroller Strut, Kids' Quest, or Guided Exploration. Wheelchair-friendly route also available.

Walking tours led by Garden Docents leave from the ticket counter at 1 p.m. daily throughout the year (except during Japanese Festival and Best of Missouri Market).

Guided tours of Tower Grove House, Garden founder Henry Shaw's 1851 country home, are available daily between 9:45 a.m. and 4 p.m. Nominal extra charge. The Tower Grove House is closed each January for renovation.

Hands-on learning activities are presented each Saturday throughout the year from 10 a.m. to 2 p.m. These fun activities are tailored to fit the age range of the audience and utilize toys, puzzles, and games to help visitors learn about plants and their environment. Brookings Interpretive Center or on the Garden grounds.

Garden walkers' breakfasts. In cooperation with the American Heart Association, the grounds open early every Wednesday and Saturday at 7 a.m. to encourage fitness walking. A light breakfast is available for purchase in the Garden Café starting at 7 a.m.

members

Breakfast with Santa

He's making a list, so you'd better be nice. Bring a pair of mittens or a child's hat to donate to a neighborhood charity, then visit with Santa and his friends. The ticket includes breakfast, a visit with Santa, and a Christmas craft to make.

Menu: waffles with syrup, bacon, turkey sausage, scrambled eggs, hashbrown potatoes, biscuits with butter and jam, mini-muffins, mini-danishes, white and chocolate milk, cranberry and orange juice, freshly brewed coffee.

Please call (314) 577-9500 for reservations by Monday, December 2. Seating in the Garden Café is on a first-come, first-served basis.

Saturday, December 7

PHOTO BY MARY BUTKU

members days

Holiday Decorating and Entertaining with Catering St. Louis

Have you always admired the beautiful table settings and buffet presentations you see in the magazines? Want to have the party decorations that everyone oohs and aahs over? Join us for this very special Members' Day and learn all the tricks of the trade! Mark Erker, owner of Catering St. Louis, and designer Rob Schaefer will show us how to take what you already have in your linen closet and china cabinet and pull together some very creative seasonal centerpiece ideas. Don't miss this fun demonstration!

Immediately afterwards, the Garden Gate Shop will have a food tasting featuring our very own signature Missouri Botanical Garden food items.

PHOTO BY DAN MADISON

Wednesday, November 13
11 a.m.
Shoenberg Auditorium

Stone in the Garden: Inspiring Design and Practical Projects with Gordon Hayward

Join us for a very special lecture and book signing with Gordon Hayward. Mr. Hayward is a nationally acclaimed garden designer, lecturer, and regular contributor to *Horticulture* magazine. We are pleased to have Mr. Hayward join us and share his vast knowledge of this essential garden element with us. Book signing will follow the slide presentation.

Tuesday, November 19
11 a.m.
Shoenberg Auditorium

A Big Thank-you!

The 11th annual Best of Missouri Market was a great success, thanks to the dedication and hard work of our co-chairs Nora Stern and Ellen Dubinsky, the Members' Board, and all of our great volunteers and staff. Special thanks to our sponsors: Coca-Cola, Home Depot, Lord & Taylor, Commerce Bank, ConAgra, Edward Jones, and KMOX. Thanks also to the Girl Scout Council of Greater St. Louis and Sachs Electric.

PHOTO BY MARY BUTKUS

Membership Benefits

Free Admission to the Garden, including the Garden Café, Tower Grove House, Shaw Nature Reserve, and EarthWays Home for two adults and all children under age 18 for one year. Discounts on admission to Garden public events.

Free Publications including the *Bulletin*, 6 issues a year filled with information and activities at the Garden, Shaw Nature Reserve, and Sophia M. Sachs Butterfly House plus home horticulture advice from the experts at the Kemper Center for Home Gardening.

Flower Show Parties
Previews of the annual Holiday Flower Show and Orchid Show.

Monthly Members' Days
Special programs presented exclusively for Garden members and their guests feature free tram rides, 10% off in the Garden Café, and special discounts in the Garden Gate Shop.

Garden Gate Shop
The Garden Gate Shop presents annual spring, fall, and holiday sales with 20% discounts for members only.

Discounts
Members receive 10% off all purchases in the Garden Gate Shop, plus special rates on selected educational courses.

Members' Travel
Special trips explore public and private gardens around the world.

Reciprocal Admission
to over 150 selected botanical gardens around the country.

Discounted Subscription Rate
for *St. Louis Homes & Lifestyles* magazine

Holiday Show Preview

On December 5 and 6, there's something exciting happening at the Garden. For the first time ever, the Members' holiday flower show preview is being combined with Christmas Carols in the Garden. That's right: you get two preview nights instead of one. And to top it off: they're both completely free for Members. Come down and catch the magic of "Animals on Parade" at the flower show, then stay to be entertained by the multiple groups of carolers throughout the Garden. There's hot cider and cookies, and Santa too. Someone must have been very good this year...

Holiday Flower Show Preview
Thursday and Friday, December 5 and 6
5 to 9 p.m.
Orthwein Floral Display Hall

Picture this—20% off!

November 6–10, December 4–8

Picture your friends and family at the Garden and receive a lovely picture frame to capture the moment as your special gift. During the November and December Holiday Sales in the Garden Gate Shop, Memberships will be discounted 20 percent. Purchase a regular $60 membership for $48 or a $55 Senior membership for $44. Discounts for onsite sales only. No phone, fax, or email orders.

Saint Louis Harmony Chorus Holiday Concert

Join us for a very special holiday concert performed by the award-winning Saint Louis Harmony Chorus. This a cappella chorus is affiliated with the Arts and Education Council of St. Louis and Sweet Adelines International. The St. Louis Harmony Chorus has thrilled audiences for over 40 years, and we are pleased to have them join us for this Missouri Botanical Garden holiday tradition. In addition, the Garden Gate Shop will offer Members an additional 5% discount on all CDs.

Saturday, December 14
1 p.m.
Shoenberg Auditorium

PHOTO BY MARY BUTKUS

Tajikistan

What do you do when you're stuck in a Soviet-era Antonov-28 commuter plane that can only fly at 12,000 feet when you encounter a mountain range over 18,000?

"Take lots of pictures," laughs MBG Senior Curator Dr. Ihsan Al-Shehbaz, as he presents the stack of breath-taking images snapped out the window as the plane squeezed down the Amu Darya River valley, alternating between the airspace of Tajikistan and Afghanistan.

"The country is exceptionally poor, but there is tremendous botanical richness..."

"The plane ride was indeed a highlight," says MBG Herbarium Curator Dr. James Solomon, with his own stack of photos of the trip between Dushanbe, Tajikistan's capital, and Khorugh, the town in West Pamir that is home to the Pamir Institute of Botany and Botanical Garden.

This August, Solomon and Al-Shehbaz traveled to Tajikistan, making the first visit to the region by Western botanists in over 80 years. They joined Dr. Hikmat Hisoriev, director of the Institute of Botany of the Tajik Academy of Sciences, and Dr. Dovut Navruzshoev of the Pamir Botanical Institute-Khorugh to conduct fieldwork in Pamir, the extremely rugged southeastern portion of the country. A National Geographic Society grant funded their study.
The goal? To collect specimens from this inaccessible region for broader study and to prepare a checklist of the flora to enable future conservation efforts. No small feat, considering the precarious situation of Tajikistan both geographically and politically.

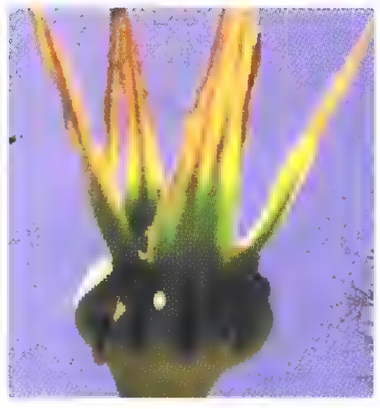
Materially Poor, Botanically Rich

Ten years of recurring famine, intermittent civil war, and warring clans following the breakup of the U.S.S.R. have plunged Tajikistan into grueling poverty. According to National Geographic, Tajikistan is one of the poorest countries in the world, with 80 percent of the people living below the poverty line of $17 dollars per month.

Desperate times have created a climate of instability, especially in the urban areas. Westerners are still a rarity. MBG scientists exercised caution and always traveled with host scientists.

"We registered at the U.S. Embassy, and we stayed in the Director's home in Dushanbe. Someone was with us at all times," notes Al-Shehbaz, "but everywhere people loved us and welcomed us."

"You're always a bit apprehensive, but you can't dwell on it," says Solomon. "The people at the



From left: (1) Malcolmia africana. *(2) Solomon and Al-Shehbaz (in native Tajikistani hats) with Dr. Sabir Janussov and herbarium workers. (3)* Ostrowskia magnifica. *(4) Al-Shehbaz and Navruzshoev crossing the Badju River outside of Khorugh. Opposite: (1)* Eremurus robustus *at 10,000 feet in Pamir.*

Institute were very protective of us, and it was through their good will and interest in developing collaborations that the research got done."

"The country is exceptionally poor," observes Al-Shehbaz, "But there is tremendous botanical richness, even the produce! In the market, we bought figs—they have so many more varieties available, from tiny to nearly grapefruit-sized. Different kinds of apricots and watermelons too."

Roof of the World, Mustard Heaven

Roughly the size of Arkansas (55,000 square miles), Tajikistan is 93 percent mountainous, with 12 peaks over 16,000 feet, including the former Soviet Union's highest point—Sumani Peak at circa 25,000 feet, and over 40 glaciers.

The eastern part of Tajikistan is the Pamir mountain range. *Pamir* means "roof," and the region includes numerous high plateaus ranging from 12,000 to 15,000 feet. Vegetation there is of interest for many botanists and environmentalists because of its uniqueness. Yet due to the area's remoteness, rugged terrain, and lack of roads, specimens from the region are extremely rare or absent entirely in the world's herbaria outside of some institutions in the former Soviet Union.

Plants in Pamir feature a variety of traits specially evolved to deal with the harsh, high-altitude environment, such as cushions, mat-formations, and prostrate branches. However, they all share one characteristic—slow growth—that renders this ecosystem very sensitive.

An international authority on the mustard family (Brassicaceae), Al-Shehbaz has a special interest in Tajikistan: the area between Tajikistan and Turkey has the highest diversity of mustards in the world. Out of 330 known genera of mustards, 90 (almost 30 percent) are native to Tajikistan. By comparison, the entire North American continent has only 60.

"Tajikistan is a heaven for mustards. All my life I have wanted to go there."

A Day in the Life

The low-hanging flight to Khorugh was just the beginning of adventure for the research team. From town, they piled into the Director's four-wheel-drive vehicle and climbed steadily into the mountains, stopping in a village on the way up to arrange for a meal later that day. After making an "enormous" collection (close to 100 numbers), they returned to the village to find townspeople had butchered a goat and prepared a stew of organ meats.

Subsequent days found the scientists hiking cattle and sheep trails up glacial slopes to over 13,500 feet, tapping ahead of them with walking sticks to clear the path of poisonous snakes at lower altitudes. They carried hammers (brick masons' hammers are used to excavate plants from rocks and heavy soil) and field presses (boards, cord, and newspapers used to flatten plants before they wilt), and stopped to collect interesting things all day. After 12 hours of walking and collecting, they returned at dark for the next phase: pressing the new specimens and changing out papers on the old ones.

"The drying of plant specimens is completely low-tech," says Solomon. "We had iron presses. You interleave the plants with newspaper and let them dry in the sun. Then switch out the damp newspapers with fresh ones every day until the plants are dry."

A few days into their stay, there was a reminder of the awesome power of nature in this remote land: the previously glacial blue river turned a deep red-brown. There had been a mudslide, taking out part of a nearby village, killing 36. The team had passed by this area just two days before.

Post Tajik and Lost Luggage

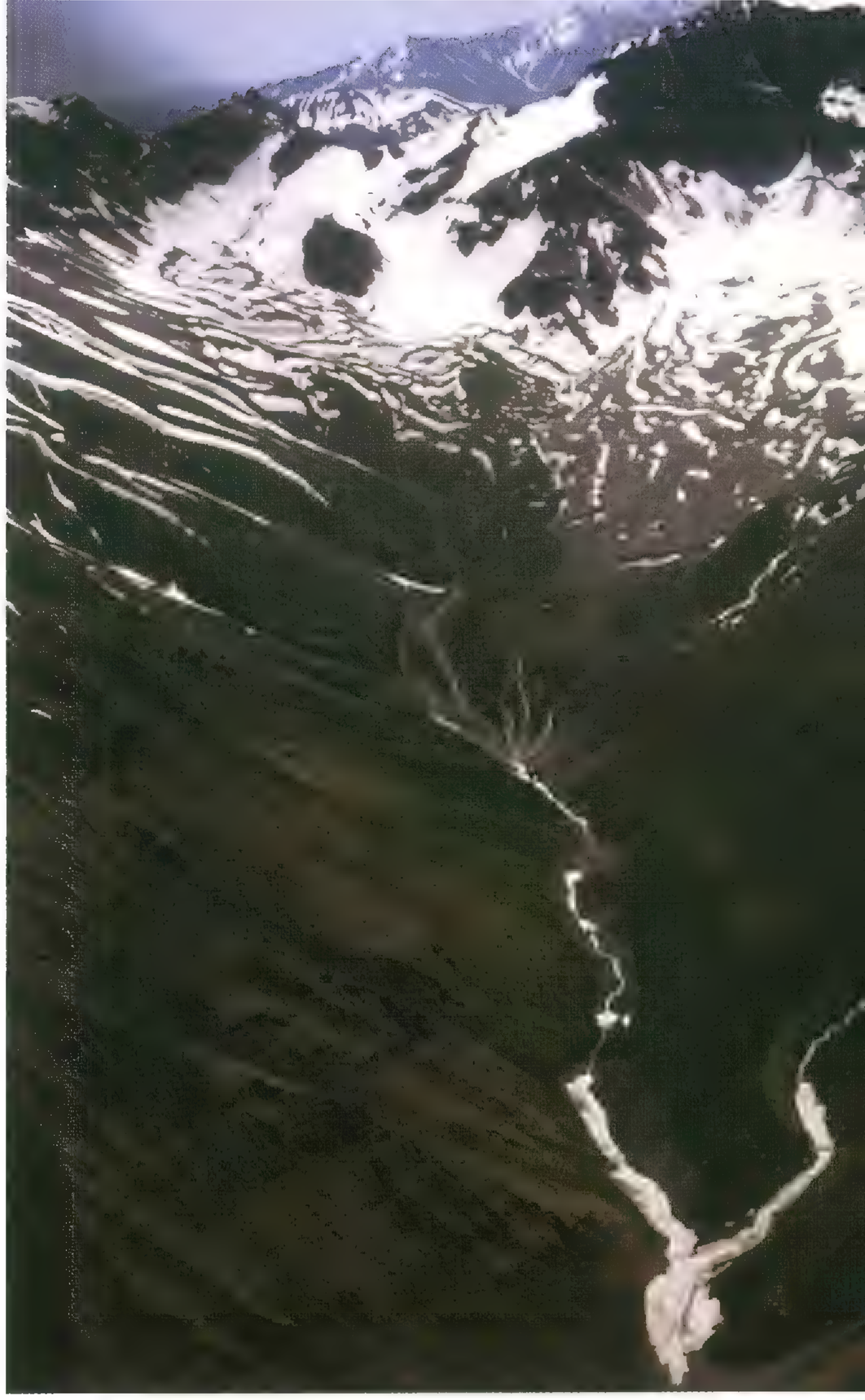
Collecting the specimens was only the first step. Getting them out of the country was another. Jim Solomon shows off the first of several packages arriving in St. Louis over the weeks and months following his return. It is a box swathed in rough natural cotton cloth that has been sewn shut. The seams are sealed with red wax "to prevent tampering." Inside the partially crushed cardboard produce box is a lumpy stack of Tajik newspaper, wrapped with twine. From this homely ensemble will emerge specimens never before seen in most herbarium collections.

Tajikistan *continued*

It turns out that vagaries of the Tajikistani postal system are mild compared to the lot of luggage on Western flights. "I made it all the way from Frankfurt to St. Petersburg to China to Tajikistan, no problem, but they lost my big suitcase on the way back through Chicago," says Al-Shehbaz.

When the luggage was located in Chicago a few days later, another problem emerged. The Customs Agents, of course, opened the suitcase. Inside were the carefully prepared samples botanists use for DNA research—leaf material dried in silica gel. Although Al-Shehbaz had all the correct permits, he was not physically present with his luggage to display them, and the USDA confiscated his collection. Finally, after five more weeks of faxes and phone calls, the suitcase and research materials were returned.

"Through their good will and interest in developing collaborations the research got done..."



Above: The Amu Darya River valley. Tajikistan is at left; Afghanistan is at right.

The Future

Al-Shehbaz and Solomon collected specimens of close to 300 species, which will now be carefully mounted, studied, and some will be distributed to other herbaria. Botanists have begun compiling a checklist of Tajikistani flora, but with 4,500 species, the project will take several years. Al-Shehbaz has already begun work preparing grant proposals for future exchanges between MBG and Tajikistani scientists, and part of the process will be assessing the rare or potentially endangered species.

The positive news for conservationists is that the Pamir region, thanks to its inaccessibility, has been spared the wide-scale habitat destruction of other delicate ecosystems. "The only disturbance so far has been cows and sheep," laughs Al-Shehbaz.

This remoteness however has also prevented the investigation of plants for medicinal and/or horticultural uses, uses that might one day benefit the impoverished nation.

Future collaborative ventures with Tajikistan will include bringing botanists to train and study in the U.S. as well as conducting additional fieldwork.

Below from left: (1) Field station at Jelondi, elevation 11,000 feet. (2) Tajikistan airlines. (3) Village en route to Jaushangoz. (4) Khorugh seen from across the Gunt River. (5) Market in Dushanbe with its rich assortment of peppers.

PHOTOS BY JIM SOLOMO

Butterfly House

Introducing the Emerson Lakeside Terrace

Made possible by a generous donation, the Emerson Lakeside Terrace opened this September for its inaugural event: Wing Ding 2002. Over 200 guests wined and dined and bid on auction items at the lovely 10,000 square-foot terrace with open-air pavilion. Ideally situated near the large reflecting pool, the space showcases both the native habitat and the "crystal" facade of the Tropical Conservatory. The terrace can accommodate up to 200 guests for a sit-down dinner party and will be available for private evening events April through October. Emerson's generous donation will enable the Sophia M. Sachs Butterfly House not only to host private events, business meetings, and special occasions, but also to augment the Butterfly House education facilities to accommodate the burgeoning requests for expanded classes.

PHOTO BY LAURA CHISHOLM

PHOTO BY ALISE O'BRIEN

Butterfly House

A division of the Garden since 2001, the Sophia M. Sachs Butterfly House features butterflies in free flight inside a glass conservatory as well as outdoor habitats. Located in Faust Park, Chesterfield, MO, the Butterfly House is open daily 9 a.m. to 4 p.m. (5 p.m. in summer). For information, call (636) 530-0076.

Thank You!

Thanks to everyone who contributed to Wing Ding 2002's spectacular success. Sincere thanks to our sponsors Arthur & Helen Baer Charitable Foundation, Edward Jones, Emerson, Laclede Gas Company, Maritz Inc., Northern Trust Bank, and St. Louis Homes & Lifestyles. Special thanks to all the contributors who are responsible for the tremendous success of the Wing Ding auction: A. Bommarito Wines, Bob Cassilly, Ces & Judy's Catering, Chrysalis div. of Classic Mktg., Ltd., Custom Art Glass, Edwin Pepper Interiors, Elleard B. Heffern, Inc., Lowe's Home Improvement Warehouse, Master Artisans Inc., Jim Powers, Residensea, SilverSea & Luxury Travel, Ritz-Carlton St. Louis, Dale Rohman Floral Design, Straub's Market, Timothy Ufuomo Efe Orikri, Nancy Hamel Wahab, and Warson Woods Antique Mall.

Mini-Butterfly Mansion

Just in time for the holidays: this spectacular turreted playhouse will be raffled off Thursday, December 5, with all proceeds to go to the Sophia M. Sachs Butterfly House. Purchased by a benefactor at Wing Ding 2002, the house was then donated for the raffle. Built by Master Builder Jim Powers, the mini-mansion measures 10 feet square, and even has a handcrafted copper weather vane in the shape of a butterfly. With porch swing, loft bed, and pillow cushions on wrought iron chairs, this mini-mansion will place any youngster in the lap of luxury. Donations are $10, or three for $25, and can be made at the Butterfly House.*

PHOTO BY MIKE ORANSKY

*No purchase necessary.

Shaw Nature Reserve

"Are we sleeping outside?" "Will there be bathrooms?" "What kind of food are we eating?" These are just a few of the questions asked of Jessica Parsons by her fifth grade students from Gateway Elementary Math, Science, and Technology Magnet School on the eve of their visit to the Dana Brown Overnight Education Center at the Shaw Nature Reserve.

On March 28, these lucky 25 students became the first group to stay at the Center, now nearing completion. The Center is a cluster of restored historic buildings and represents a new and exciting part of the Nature Reserve's overall educational mission. At this time, two of the four sleeping lodges, the shower house, and assembly building are completed. The two remaining lodges are scheduled for completion in spring 2003, and the adjacent existing Adlyne Freund Education Center will serve as a dining hall.

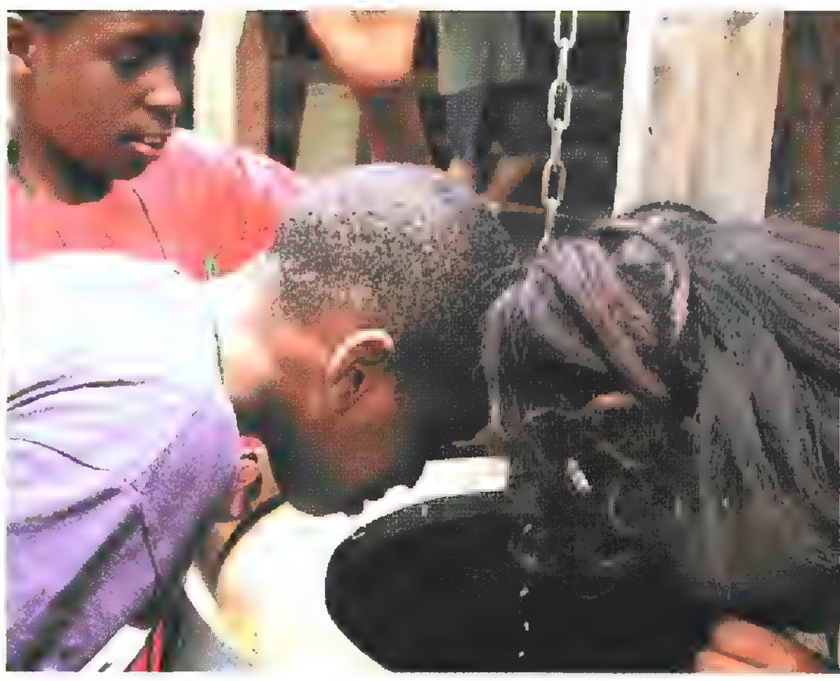
"These inexperienced and worried young campers ended up completely taken in by the magic of the Overnight Center," says Parsons of her group's visit. "It is a unique facility for science and ecology education. The night hike was a highlight."

Night hikes are just one of several activities possible with an overnight visit. The Dana Brown Overnight Education Center is within a short walking distance from a diversity of natural features such as prairie, wetland, woodland, and the Meramec River. School programs will target upper elementary, middle, and high school children, and will include ecosystem studies, aquatic ecology, plant and animal inventories, winter ecology, land management, ecological restoration, and much more.

"Having an overnight facility enables participants to experience the evenings and early mornings when a lot is going on in the natural world," says John Behrer, Director of the Shaw Nature Reserve. "Hearing owls, coyotes, and whiporwills, or a deer snorting in the woods just out of sight in the darkness is a magical experience for children, and instills a sense of the wonder of nature."

PHOTOS BY JAN OBERKRAMER

From left: (1) Lichtenstein Lodge at the Dana Brown Overnight Education Center. (2) The team from Hacker Woodworks preparing a hand-hewn timber for placement.



Programs will have a field component, focus on ecological concepts, promote cooperative learning, and enhance science process skills. Adult and family programs will eventually be offered, as will professional development for teachers, and all to further the Garden's educational focus.

"The Dana Brown Overnight Education Center will truly transform the educational offerings of the Shaw Nature Reserve," says Dr. Luther Williams, William T. Kemper Director of Education and Interpretation, "thereby enabling the realization of several of the core objectives of the education division."

The sleeping lodges are meticulously restored 19th-century log structures acquired from farms in the surrounding area. Longtime Garden member Norman Holtzinger generously donated hand-hewn white oak logs from a 125-year old building on his property in Madison County, Illinois; which played a valuable role as replacement logs in the construction of the lodges. These buildings were all carefully disassembled, transported, and reconstructed at the Nature Reserve, often with the help of additional recycled materials. For example, the porches on the lodges are all mature red cedar harvested on Shaw Nature Reserve grounds. The trees were already being cleared to make room for native hardwoods, so several purposes were served.

"The floor plans follow the original," says Bill Hacker of Hacker Woodworks, the company in charge of the reconstruction of the buildings. "And the methods are all traditional: not only stacking the logs, but chinking them as well, and then roofing a structure that is made of naturally formed logs and so is not square. It's very labor intensive construction."

Construction began in June 1999 and the start of the project was made possible by a lead gift of $1 million from the Dana Brown Foundation. For information on the naming opportunities remaining on two lodges and the assembly building, contact Patty Arnold, Director of Development, at (314) 577-5120.

Dana Brown Overnight Education Center at the Shaw Nature Reserve
For information, call Jan Oberkramer at (636) 451-3512.

Above from left: (1) Gateway Elementary students ham it up on the bunkbeds. (2) Wild bird feeders. (3) Checking the well.
Left: The Shaw Nature Reserve features an abundance of wild animals, from deer and coyotes to rabbits and raccoons, and even turkeys.

Shaw Nature Reserve

Established by the Missouri Botanical Garden in 1925, the Shaw Nature Reserve is in Gray Summit, MO, 35 miles west of St. Louis on I-44 (Gray Summit exit 253). In addition to the Whitmire Wildflower Garden, the 2,400-acre reserve is also home to the restored Bascom House (1879) and fourteen miles of hiking trails. Grounds are open daily 7 a.m. to one-half hour past sunset. For information, call (636) 451-3512.

GCRE

It's Just the Air, Why Should We Care?

by Glenda Abney,
Gateway Center Program Manager

Gateway Center for Resource Efficiency Creates Air Pollution Education Modules

What do you know about air quality in St. Louis? Early in the 20th century, pollutants produced by burning coal to heat homes and businesses threatened public health for decades. Toxic chemicals released during many ordinary activities pollute the air we breathe today. Air quality is improving, but hard work remains before our area is free from harmful air pollutants.

On November 28, 1939, dubbed "Black Tuesday," coal smoke turned the St. Louis air so black it completely obscured the sun. Finally people began a response to the severe community problem.

Missouri Botanical Garden studies of the effects of coal smoke on plants helped fuel civic efforts to clean up coal usage. Archived editions of the Garden *Bulletin* document acute damage to many species of plants, even those kept inside greenhouses. "The Effect of City Smoke on Plants," a 1932 feature, stated, "...such damage can only be estimated, but that it is real can be demonstrated easily by a comparison of the growth of plants, both out of doors and under glass, at Gray Summit and in St. Louis."

A 1924 article reported, "Roses can be protected against frost damage by some kind of covering, but there is no known protection against smoke injury...while the damage is not immediately noticeable, the vitality of the plants is gradually lowered. Certain roses simply will not grow. They may remain alive for a few years without making much growth and then finally succumb."

In 1925 the Garden established Shaw Nature Reserve to relocate many plants in order to save them from contaminated air that imperiled the city plant collections. Fortunately, air quality improved before this radical move was necessary, and the Shaw Nature Reserve is today an outstanding ecology education facility.

St. Louis passed a Smoke Control Ordinance in 1940 that served as the model for similar measures in 230 cities across the United States. This first ordinance applied to businesses, but it was not enough. When the city also regulated fuel burned by homeowners, the thick smoke began to clear. A rare orchid blooming at the Garden in November 1940 was a welcome sign of change in the high pollution levels, as the *St. Louis Post-Dispatch* reported that year in an interview with Garden Director George T. Moore.

Today we focus on air pollutants that are far less visible than the dense coal smoke from the early 1900s. Ground-level ozone, various hazardous air pollutants and particulates pose serious environmental and public health concerns. Sensitive monitoring techniques provide the means to investigate the source of many air quality problems. Public education is an essential tool for reversing effects of air pollution that harms everyone.

With funding from the U.S. Environmental Protection Agency, the Garden's division Gateway Center for Resource Efficiency is developing environmental education modules to teach both children and adults about today's air pollutants and how to help safeguard air quality and health.

How many people do you know with asthma or emphysema? How often do you sit in

Earthways Home Tour
Saturday, November 15
10 a.m. to 2 p.m.
$2 per person,
Free for Garden Members

PHOTO BY MARY BUTKUS

Project partners and local students learn how the filters work in an air quality monitoring device. Row One: Gana Griffeth, Quindaryl Adams, local students; Marcus Rivas, U.S. EPA Region VII. Row Two: Emily Andrews, St. Louis CAP Coordinator; student Mercedes Adams; Glenda Abney, MBG Gateway Center.

traffic, alone in your idling car? Have you ever really read the labels on cleaning products in your home? Awareness of the issues and options for change empowers people to act on their knowledge of the connections between behavior and air pollution.

From Gateway Center's current project, people will learn how daily actions impact health problems; the relationship of air quality to other areas of the environment, such as soil and water; and how the choices we make can contribute to healthier communities. Panels including specialists in air quality, EPA professionals, educators, and community stakeholders will evaluate learning activity modules. An Asthma Summit will convene representatives of Missouri's health and environmental agencies to work on improving children's health issues related to air pollution. Continued funding will also be sought to support teacher training and publication development.

Garden history documents the relationships between air quality, plant health, and human health in our environment. Garden staff continues to work in community partnerships that advance clean air issues, throughout the St. Louis region.

PHOTO BY TIM PARKER

EarthWays Home

Headquarters of the Gateway Center for Resource Efficiency, the EarthWays Home is a century-old Victorian house renovated to demonstrate energy-efficient systems, recycled products, and sustainable lifestyle choices.Centrally located in the historic Grand Center theater district of St. Louis, the address is 3617 Grandel Square, St. Louis, MO 63108. Tours are available by appointment on the third Friday of each month. Call (314) 577-0220.

The St. Louis Community Air Project

In 1997, the Kansas City Regional Office of the U.S. EPA conducted Listening Tours throughout St. Louis to identify community issues. Investigators reported that, "Health concerns related to air pollution were identified by nine out of 10 participants as their greatest environmental concern." The St. Louis Community Air Project (CAP) was inaugurated in 2000 to organize responses to these problems.

The CAP partners strive to better understand the presence of air pollutants in the St. Louis metro area, and to reduce or prevent related health problems. CAP has set "health benchmarks" for protection from air pollutants, developed with the expertise of Missouri Department of Natural Resources and EPA staff. When the partnership realized they needed educational materials on these complex topics for learners of all ages, the EPA contracted with Missouri Botanical Garden's Gateway Center, specialists in resource conservation and pollution prevention.

CAP is guided by a group of community stakeholders; more than 40 companies, organizations, and individuals are represented. This partnership is an outstanding model for environmental management, adaptable for use across the country. Traditional adversaries in environmental matters—corporations, residents, advocacy groups—come to the table mutually committed to finding constructive, cooperative responses to pollution that drains money, time, and quality of life from everyone breathing contaminated air.

CAP recently completed a year of monitoring for over 90 air pollutants at three sites in South St. Louis. Monitoring will continue at the Grant School station, and a new monitor using laser technology will soon be installed at Washington University. Additional monitoring stations are planned for other parts of the metro area, to collect data on natural and non-natural sources of certain pollutants. This project helps the EPA meet its federal mandate to manage 188 toxins found in the air.

Another CAP goal is development of a community-wide plan to address regional air issues. A St. Louis Air Plan may soon make headlines as the model for clean air initiatives across the country, just as our landmark Smoke Control Ordinance did in 1940.

For more information on CAP, visit www.stlcap.org, or contact Glenda Abney at (314) 577-0288.

Above left:
CAP monitoring equipment measures levels of toxic metals in the air, such as arsenic, lead, mercury, and antimony.

St. Louis CAP
COMMUNITY AIR PROJECT

tributes

JULY–AUGUST 2002

For information on making a gift to the Tribute Fund, please call the Development Office at (314) 577-5120.

in honor of

Henriette Ackerman
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Mr. and Mrs. Roy Agnew
Mr. and Mrs. James A. Hopkins
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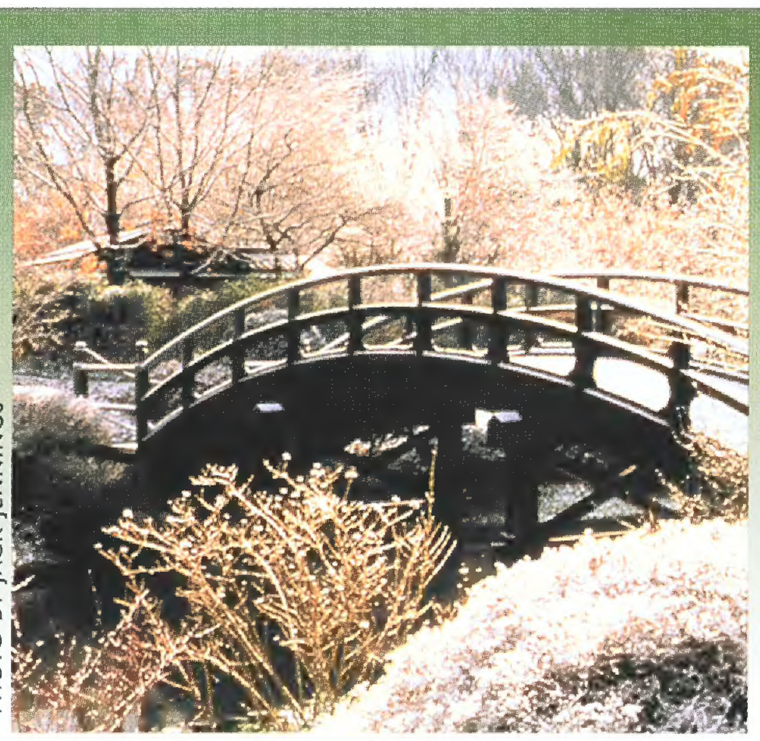

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Create a Legacy

By leaving a bequest to the Garden, you create a legacy that will benefit others for generations to come. If you have already included the Garden in your estate plans, we hope that you will share this information with us. We would like to express our gratitude and welcome you into the Heritage Society. Of course, your wishes for anonymity are respected.

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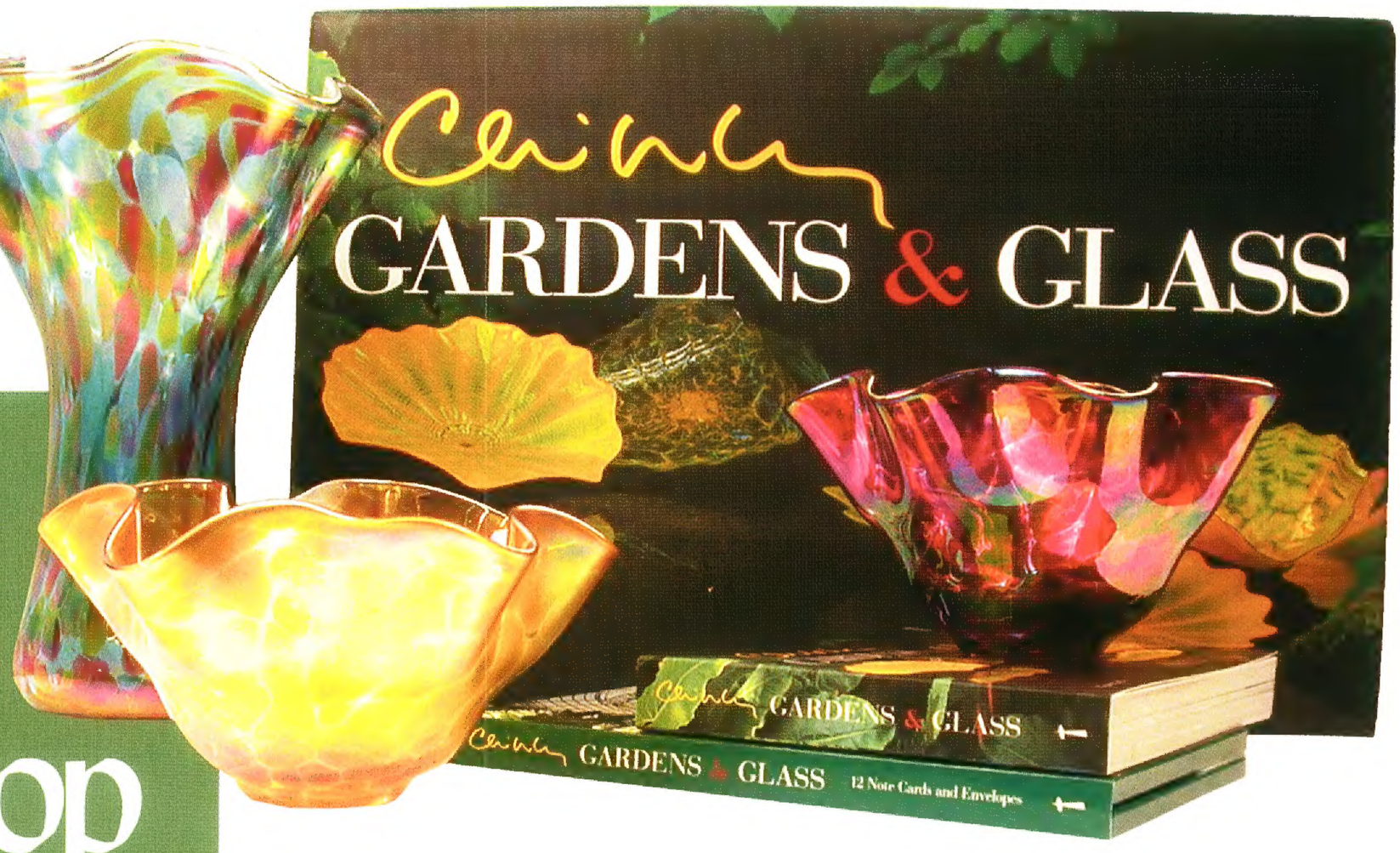
the Garden Gate Shop

4344 Shaw Boulevard (314) 577-5137
Open daily 9 a.m. to 5:30 p.m.
All proceeds benefit the Garden.



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Find fine glassware gifts from famed artisan Dale Chihuly studios, as well as lovely stationery and books featuring gardens and glass.

They're here...

The 2003 Missouri Botanical Garden Calendar by photographer Jack Jennings is available at the Garden Gate Shop. Proceeds support the Missouri Botanical Garden. Buy one for everyone on your list!

Whimsical Italian holiday tableware sets a festive mood, and lovely gourmet goodies make the perfect small gifts and stocking stuffers.

Holiday Sales!

November 6–10:	Pre-holiday sale.
November 9:	Food tasting in the shop.
November 13:	Members' Day—members receive an additional 5% off all MBG food products, placemats, and napkins.
December 2:	Jewelry trunk show featuring the designs of Shelly Solomon.
December 5:	Coffee and tea tasting, new candy products, sampling, 4 p.m. to 8 p.m.
December 6–10:	Holiday sale.
December 7 & 8:	Jelly Belly™ car will be at the Garden, free samples.
December 7:	Mrs. Claus StoryTime, 11 a.m. Food tasting in the shop.
December 26–31:	End-of-year sale.

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Bricks donated to the Members' Entry Court at the William T. Kemper Center for Home Gardening between August 1, 2002 and September 30, 2002.

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From the Japanese Garden to the Kemper Center for Home Gardening, from a luncheon meeting to an evening reception, the Garden is the perfect backdrop for your next special event.

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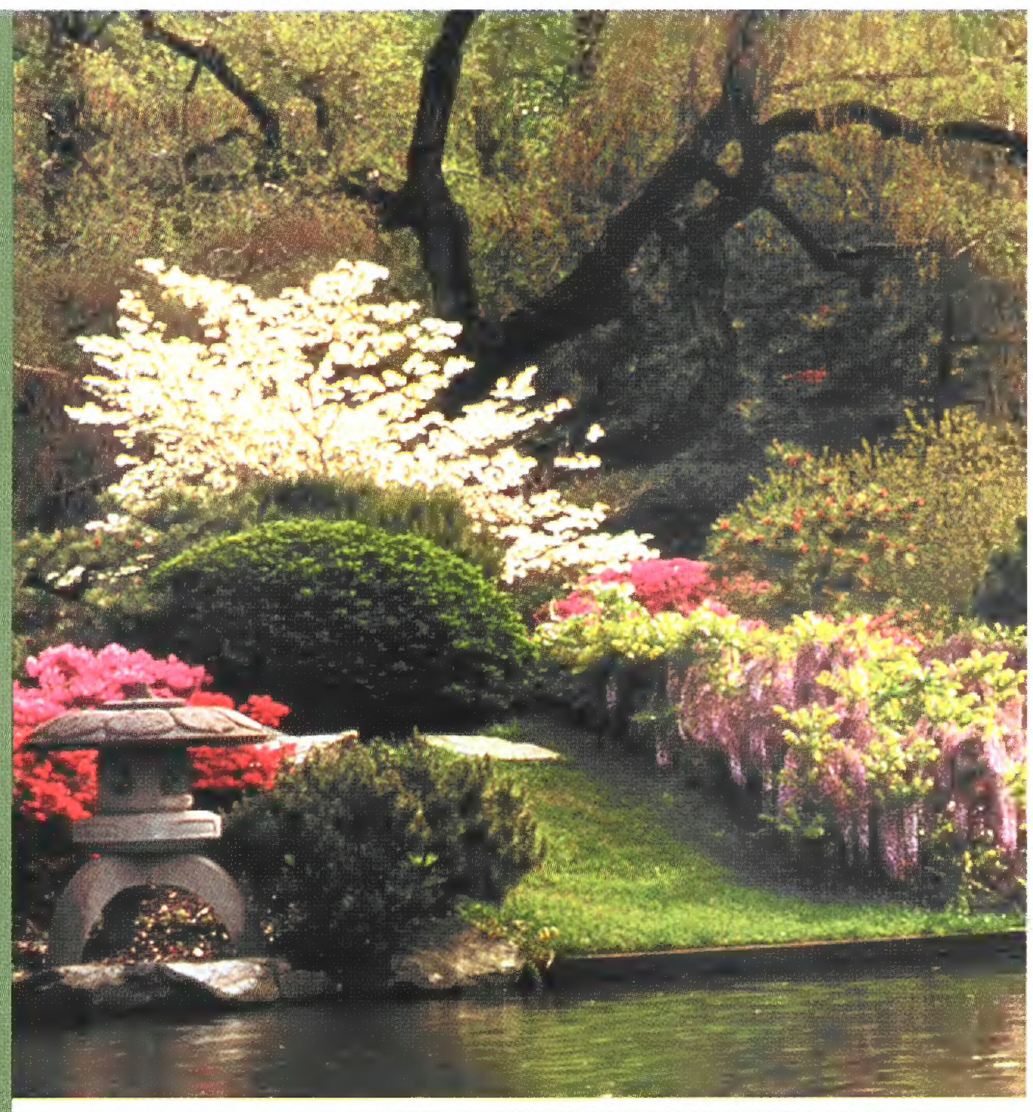

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Wisteria in the Japanese Garden

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Wizard Weekend

A very special movie opens in November and in its honor, the Garden presents Wizard Weekend, complete with sorcery, swooping birds, fun, and adventure. The Wizard's Challenge map leads young apprentices deep into the Garden to unravel mysterious riddles and clues at 13 stations. Unscramble a word puzzle to win a prize for making your own homegrown magic! Witness owl performances and live magic on both days.
A Wizard Breakfast is available by reservation. Participants will be seated according to their assigned houses of Raven, Linnaeus, Engelmann, and Shaw, and will fine-tune their magic herbology skills with Headmistress Amy Haake of the Garden's Education Division, as they dine.
Call (314) 577-0254 for reservations.

Schedule for both days

All the time	Wizard's Challenge
9–10 a.m.	Wizard Breakfast (by reservation)
10–11 a.m.	Sorcerer's Magic Show with Sonny K. Williams
1–2 p.m.	Owl Visitation with World Bird Sanctuary
2–3 p.m.	More Magic

Wizard Weekend
Sat. and Sun., Nov. 9-10 • 9 a.m. to 5 p.m.
Activities: free with admission.
Breakfast $15 ($13 for Members).
Call (314) 577-0254 by Nov. 1 for reservations.

Hours
The Garden is open every day except Christmas, 9 a.m. to 5 p.m. Extended summer hours for 2003 will be announced. Parking is free.

Admission
- Free for Members
- General admission is $7
  $3 for St. Louis City/County (ZMD) residents.
- Senior admission (65+) is $5
  $1.50 for St. Louis City/County (ZMD) residents.
- Children age 12 and under—free.
- Garden admission is free to St. Louis City/County (ZMD) residents until noon every Wednesday and Saturday throughout the year, (except during Japanese Festival and Best of Missouri Market).
- Special events may require an additional fee.

General Information
For 24-hour, pre-recorded information, call (314) 577-9400. Outside the (314) area code, call toll free 1-800-642-8842.

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